

# **Acronyms and Initialisms in Technical Reports – SAND89-0217 (rev. 6, dated 5/2001)**

This document is a searchable “pdf” file. To search for a word or acronym, use the Control/F keys on the PC or the Apple/F keys on the Mac. An alphabetical index is available in the Bookmarks screen.

The Creative Arts Department plans to update this document with current Acronyms later this year. If you would like to add an unclassified acronym or correct an existing one, please email us at [CreativeArts@sandia.gov](mailto:CreativeArts@sandia.gov). All changes will be reviewed by Classification prior to publication of a new version.

See page 2 for a description of acronyms and initialisms.

An acronym is a combination of letters that can be pronounced as a word. An initialism is an unpronounceable combination of letters.

General      Avoid overwhelming your reader with acronyms and initialisms.

An **acronym** is an abbreviation that is formed by combining the first letter or letters of several words. Acronyms are pronounced as words. Examples include:

modem = modulator and demodulator

EPCOT = Experimental Prototype Community of Tomorrow

NATO = North Atlantic Treaty Organization

An **initialism** is an abbreviation that is formed by combining the initial letter of each word in a multiword term. Initialisms are pronounced as separate letters. Examples include:

CRT = cathode ray tube

GUI = graphical user interface

WFO = work for others

When using an acronym or initialism for the first time in text, enter the full phrase in its expanded version followed by the abbreviated form in parentheses. Example: Sandia National Laboratories (SNL). In a short report, one expanded version is sufficient. However, in a lengthy report, you may want to repeat the expanded version in a later section to refresh the reader's memory, followed by parentheses.

Plurals      Form the plural of an acronym or initialism by adding **s**, as in PMFs. Use the apostrophe only when it may be confusing, as in Kd's.

Using *a* or *an*      **Acronyms:** The indefinite article to be used with an acronym is determined by the initial sound of the "word." Examples: a FORTRAN program, or an Ada programmer.

**Initialisms:** The indefinite article to be used is determined by the initial sound of the initialism's first letter. If the first letter has a vowel sound use "an," as in "*an* SNL employee." If it has a consonant sound, use "a," as in "*a* WFO proposal."

Capitalization      Capitalize **acronyms**; do not use periods. The only exceptions are those acronyms that have become accepted as common nouns, which are written in lower case. Examples: NASA, HUD, laser, scuba.

Initialisms may be either upper or lower case. In general, do not use periods when they are in uppercase.

# List of Acronyms, Initialisms, and Abbreviations

## A

**a**—1. atto or atto- (prefix indicates 10<sup>-18</sup>) 2. a unit of area equal to 100 m<sup>2</sup> (used mainly in agriculture)

**A**—ampere (also written as amp)

**A** or **Å**—angstrom, a unit of length (10<sup>-10</sup>) used primarily to express wavelengths of optical spectra; also known as tenthmeter

**aA**—absolute ampere; also, abampere

**AA**—1. atomic absorption 2. affirmative action 3. alcoholics anonymous (a Sandia support group) 4. assistant administrator

**AAAP**—accelerated access authorization program

**AAAS**—American Association for the Advancement of Science

**AABC**—Associated Air Balance Council

**AABL**—advanced atmospheric burst locator

**AAC**—affirmative action compliance

**AACG**—American Association for Crystal Growth

**AADCP**—Army Air Defense Command Post

**AACS**—airborne activity confinement system

**AAFB**—Andrews AFB

**AAFCE**—Allied Air Forces, Central Europe (NATO)

**AAI**—abbreviation, acronyms, and initialisms

**AAM**—air-to-air missile

**AANC**—Aging Aircraft Nondestructive Center (sometimes written as Aging Aircraft NDI Validation Center)

**AAO**—Amarillo Area Office (DOE)

**AAP**—1. affirmative action plan (or program) 2. adoption assistance program 3. antenna aperture package

**AASM**—advanced air-to-surface missile

**AASP**—administrative assistant scholarship program

**AAU**—accelerated aging unit

**AAW**—anti-aircraft warfare

**AB**—1. airburst 2. as-built

**abamp**—absolute ampere

**ABAQ**—Albuquerque/Bernalillo County air quality

**ABC**—1. advanced biomedical capsule 2. Atomic biological, and chemical (warfare) 3. Advanced Battery Consortium

**A-BC/AQCB**—Albuquerque-Bernalillo County/Air Quality Control Board

**ABF**—advanced bomb family

**ABITE**—antenna built-in test equipment

**ABL**—1. atmospheric burst locator 2. armored box launcher 3. airborne laser

**ABLE**—Affiliated Black Laboratory Employees

**ABLS**—armored box launcher system

**ABM**—antiballistic missile

**ABOSF**—automatic burnout safety factor

**ABRS—advanced ballistic reentry system**

**ABRV—advanced ballistic reentry vehicle**

**abs—absolute**

**ABS—automatic block signaling**

**AB/SB—airburst/surface burst**

**ABW—Air Base Wing**

**ac or AC—alternating current (variable polarity)**

**aC—abcoulomb (electromagnetic unit)**

**AC—access control**

**ACA—adult children of alcoholics (a Sandia support group)**

**ACAD—advanced computer-aided design**

**ACARS—access control and release system**

**ACBM—asbestos-containing building material**

**ACC—1. Alarm Control Center 2. Air Component Command 3. Air Combat Command (The ACC has combined the former TAC and SAC into one command.) 4. abnormal condition control**

**ACCD—aircraft compatibility control drawing**

**ACCEL—automated circuit card-etching layout**

**ACCORD—new generation of software tools for mechanical design and manufacturing automation**

**ACCS—1. Auxiliary Central Control Station 2. Army Command and Control System**

**ACD—1. armed convoy defenders 2. automatic call distribution**

**AC&D—alarm communication and display**

**ACDA—Arms Control and Disarmament Agency**

**ACE—1. access control element 2. access control electronics 3. automatic checkout equipment 4. alternate common equipment 5. Atmospheric Compensation Experiment 6. Allied Command Europe 7. almanac, connectivity, and ephemeris**

**Ac-Em—actinium-emanation**

**ACERS—American Ceramic Society**

**ACES—atmospheric combustion exhaust simulator**

**ACF—access control facility**

**acfm—active cubic feet per minute**

**ACH—1. automated clearing house 2. air changes per hour**

**ACHP—Advisory Council on Historic Preservation**

**ACIA—1. asynchronous communications interface adapter 2. asynchronous communications interface alarm**

**ACIS—Alan, Charles, Ian System (Part of the CAD System)**

**ACL—1. access control list 2. alternative concentration limit**

**ACM—1. Association for Computing Machinery 2. advanced conventional munitions 3. advanced cruise missile 4. asbestos-containing material**

**ACMV—advanced cruise missile—variant**

**ACNFS—Advisory Committee on Nuclear Facility Safety**

**AC/NUC**—Assistant Controller, Nuclear (in Atomic Weapons Establishment, England)

**ACO**—advance change order

**ACO(UK)**—Atomic Coordinating Office, United Kingdom

**ACP**—1. asbestos-containing product  
2. (Albuquerque) Associates' Concerns Program

**ACRE**—automatic checkout and readiness equipment

**ACRR**—annular core research reactor (upgraded acronym for ACPR)

**ACRS**—Advisory Committee on Reactor Safeguards

**ACS**—1. advanced computer system  
2. altitude control system 3. automated cartridge system 4. advanced coded switch 5. access control system 6. approved calibration system

**A&CS**—access and clearance system

**ACSM**—alternate computer security manager

**ACSO**—assistant computer Security Officer

**ACT**—advanced circuit technology

**ACTI**—advanced computational technology initiative

**AcU**—actinouranium (nuclear physics)

**ACU**—automatic calling uni

**ACV**—armored combat vehicle

**ACWEG**—advanced conventional weapons engineering group

**ad**—adjoint

**AD**—1. arming device 2. advanced development 3. aerodynamic diameter

**A.D.** —anno Domini (in the year of the Lord)

**A/D**—1. analog to digital (see ADC)  
2. arm/disarm

**Ada**—a high order computer language being developed by the Department of Defense

**ADA**—1. arming device assembly  
2. Americans with Disability Act

**ADAC**—alarm display and assessment console

**ADAM**—advanced database and modeling

**ADAS**—1. automatic data analysis system  
2. alarm display and assessment system

**ADC**—1. analog to digital converter  
2. Air Defense Command 3. atomic demolition charge 4. authorized derivative classifier

**ADCOM**—Aerospace Defense Command

**ADCON**—Address Constant (computers)

**ADD**—arm/disarm device

**AD&D**—accidental death and dismemberment

**ADDS**—1. automated drawing data system  
2. automated design definition system

**ADEA**—1. Army Development and Employment Agency 2. Age Discrimination Employment Act

**ADEP**—advanced development earth penetrator

**ADF**—1. adaptive digital filtering  
2. automatic direction finder

**ADI**—1. asynchronous data interface  
2. acceptable daily intake

**ADIZ**—air defense identification zone

**ADL—1. alarm data length 2. Advanced Devices Laboratory, Inc.**

**ADM—1. atomic demolition munition 2. action description memorandum 3. atomic description memorandum**

**ADN—ammonium dinitramide**

**ADNET—administrative network**

**ADP—1. automated (or automatic) data processing 2. advanced development program 3. adaptive digital predictor 4. anticipated disability program**

**ADPA—American Defense Preparedness Association**

**ADPD—automated dry powder dispenser**

**ADPE—automated data processing equipment**

**ADR—alternative dispute resolution**

**ADRC—ARC digitized raster graphic**

**ADROIT—code for analyzing dispersal risk occurring in transportation**

**ADROV—advanced development and remotely operated vehicle**

**ADS—1. automatic data system 2. access delay system 3. ALCOA Defense System (obsolete; now McDonnell Douglas Technologies, Inc.) 4. activity data sheet 5. automatic depressurization system**

**ADSID—air-delivered seismic intrusion detector**

**ADSN—AFTAC distributed subsurface network**

**ADSS—activated denial security system**

**ADTC—Armament Development and Test Center**

**ADT&E—advanced development test and evaluation**

**ADVICE—advanced image communication and enhancement**

**AE—allowable emissions**

**A-E or A/E—architect and engineer**

**AEA—Atomic Energy Act**

**AEA-UK—Atomic Energy Authority, United Kingdom**

**AEC—Atomic Energy Commission (obsolete; now the Department of Energy)**

**AECS—advanced entry control system**

**AED—advance electronic design**

**AEDA—atomic energy defense activities**

**AEDC—Arnold Engineering Development Center (USAF)**

**AEM—analytical electron microscope**

**AEMS—acoustic emission monitoring service**

**AEOD—analysis and evaluation of operational data (NRS)**

**AEP—antenna electronics package**

**AEPDS—automated EAM processing and dissemination system**

**AEPT—advanced extraction process technology**

**AER—advance engineering release**

**AES—1. acceptable equipment system 2. Auger electron spectroscopy 3. advanced exterior sensor**

**AET—accelerated environmental test**

**AEU—accelerated environmental unit**

**af—audio frequency**

**aF—attofarad (replaces abfarad)**

**AF—augmentation force**

**A&F—1. arming and firing 2.arming and fuzing**

**AFA—arming and fuzing assembly**

**AFAP—artillery fired atomic projectile**

**AFAS—advanced field artillery system**

**AFATDS—advanced field artillery tactical data system**

**AFATL—Air Force Armament Test Laboratory**

**AFB—Air Force Base**

**AFBC—atmospheric fluidized-bed combustion**

**AFC—1. automatic frequency control  
2. automatic flight control**

**AFCEA—Armed Forces Communications and Electronics Association**

**AFCENT—Allied Forces, Central Europe (NATO)**

**AFD—arming and fuzing device**

**AFE—antiferroelectric**

**AFEWC—Air Force Electronic Warfare Center**

**AF&F—arming, fuzing, and firing**

**AFFF—aqueous foam-forming fluid**

**AFGL—Air Force Geophysics Laboratory**

**AFIT—Air Force Institute of Technology**

**AFLC/NSO—Air Force Logistics Command/Nuclear Support Office**

**AFLCR—Air Force Logistics Command Regulation**

**AFMC—Air Force Material Command**

**AFNORTH—Allied Forces Northern Europe**

**AFOC—Air Force Operations Center**

**AFOSP—Air Force Office of Security Police**

**AFP—1. approved funding program  
2. authority for payment**

**AFPL—Air Force Phillips Laboratory**

**AFR—1. Air Force Regulation 2. away from reactor (unit modifier)**

**AFRPL—Air Force Rocket Propulsion Laboratory**

**AFS—arming and fuzing system**

**AFSATCOM—Air Force Satellite Communications**

**AFSC—Air Force Systems Command**

**AFSCR—Air Force Systems Command Regulation**

**AFSD—Air Force Space Division**

**AFSMC—Air Force Space and Missile Systems Center**

**AFSOUTH—Allied Forces Southern Europe (NATO)**

**AFSPACECOM—Air Force Space Command**

**AFSRB—Army Fuze Safety Review Board**

**AFSSD—Air Force Space Systems Division**

**AFSTC—Air Force Space Technology Center**

**AFT—a file transfer**

**AFTAC—Air Force Technical Applications Center**

**AFTEC—Air Force Test and Evaluation Center**

**AFTF—alert fire team facilities**

**AFV—army family of vehicles**

**AFWL—Air Force Weapons Laboratory (now Air Force Phillips Laboratory)**

**AGARD—advisory group for aerospace research and development**

**AGB—automated glovebox bagout**

**AGC—automatic gain control**

**AGE—aerospace ground equipment**

**AGEX—above ground experiment**

**AGL—above ground level**

**AGM—air-to-ground missile**

**AGNS—Allied General Nuclear Services**

**AGOV—acid gases/organic vapors**

**AGR—advanced gas-cooled reactor**

**AGS—advanced guidance set**

**AGSP—authorized ground station personnel**

**AGT—aboveground test**

**AGV—automated guided vehicle**

**AGVT—advanced ground vehicle technology**

**AGZ—actual ground zero**

**aH—abhenry**

**Ah—ampere hour**

**AHAMS—automatic hardness assurance monitoring system**

**AHERA—Asbestos Hazards Emergency Response Act**

**AHJ—authority having jurisdiction**

**AHM—anti-helicopter mine**

**AHP—analytic hierarchy process**

**AH-PCRC—Army High Performance Computing Research Center**

**AHS—American Helicopter Society**

**AHU—air handling unit**

**AI—1. Atomics International 2. artificial intelligence**

**A/I—accident investigation**

**AIA—1. Army Intelligence Agency 2. automatic incident action 3. Automated Imaging Association**

**AIAA—American Institute of Aeronautics and Astronautics**

**AIAAM—advance-interrupt (or intercept) air-to-air missile**

**AIB—anti-intrusion bar**

**AIC—acceptable intake for chronic (exposure)**

**AICBM—anti-intercontinental ballistic missile**

**AIChE—American Institute of Chemical Engineers**

**AICPA—American Institute Certified Public Accountants**



**AICUZ—air installation compatible use zone**

**AIDS—1. adaptive intrusion data system  
2. automated information distribution system**

**AIE—acceptance inspection equipment**

**AIEE—American Institute of Electrical Engineers**

**AIFI—automatic in-flight insertion**

**AIFV—armored infantry fighting vehicle**

**AIHA—American Industrial Hygiene Association**

**AIID—Association for Information and Image Management**

**AIM—Accident Investigation Manual**

**AIME—American Institute of Metallurgical (and Petroleum) Engineers**

**AIMS—1. assessment information management system 2. authenticated item monitoring system**

**AIP—American Institute of Physics**

**AIRAPT—International Association for the Advancement of High Pressure Science and Technology (American Translation)**

**AIRS—advanced inertial reference sphere (missile guidance)**

**AIS—1. automatic intercept system  
2. administrative information systems  
3. adventures in super computing (program)  
4. acceptable intake for subchronic (exposure)**

**AISES—American Indian Science and Engineering Society**

**AIT—advance information technology**

**AIU—armament interface unit**

**AK—adaption kit**

**A-K—anode/cathode**

**aka—also known as**

**AKM—model designation for the Soviet assault rifle**

**Al—aluminum (chemical symbol)**

**AL—1. Albuquerque Operations (DOE Field Office; use DOE/AL) 2. action level**

**ALAP—as low as practicable**

**ALARA—as low as reasonably achievable**

**ALAS—automated logistical analysis system**

**ALBM—1. air-launched ballistic missile 2. air, land, and battle management**

**ALBURT—Albuquerque budget reform task**

**ALC—advanced landfill cover**

**ALCC—Airborne and Launch Control Center**

**ALCD—advanced landfill cover demonstration**

**ALCM—air-launched cruise missile**

**ALDR—Abstracts of Limited Distribution Reports (a TIC publication)**

**ALDS—automatic lighting detection system**

**ALE—Arbitrary Lagrangian Eulerian**

**ALEGRA—code being tested on the Paragon system (Physics)**

**AlGaAs—aluminum gallium arsenide**

**ALGOL—algorithmic language (computers)**

**ALI—annual limit on intake**

**AL-KAO**—Albuquerque (Operations Office)/Kirtland Area Office

**ALN**—adaptive learning network

**ALO**—air liaison officer

**ALOE**—analysis of local oriented edges (software developed by SNL for breast-cancer detection)

**ALPF**—adaptive low-pass (electrical) filter

**ALS**—advanced light source

**alt or ALT**—1. altitude 2. alternator 3. alteration 4. altimeter

**ALTL**—appraisal logistics team leader

**ALU**—arithmetic-logic (or logical) unit

**ALV**—autonomous land vehicle

**a.m.**—ante meridiem (before noon)

**A/m**—amperes per meter

**Am**—1. americium (chemical symbol) 2. ammonium (chemical symbol)

**AM**—1. amplitude modulation (electrical) 2. asbestos management

**A/m**—amperes per meter

**AMA**—1. automatic message accounting (computers) 2. administrative management activity 3. American Medical Association

**AMAC**—aircraft monitor and control

**AMACS**—alarm multiplexer communications system (computers)

**AMAD**—activity mass aerodynamic diameter

**AMC**—1. advanced maintenance concept

2. Army Materiel Command 3. Army Missile Command

**AMCO**—Administrative Management Committee (or Council) (SNL)

**AMCS**—alarm multiplexer communications system

**AMD**—advanced micro devices

**AMEC**—advanced materials processes for economics development

**AMEF**—Agile Manufacturing Enterprise Forum

**AMENDS**—Army MICOM electronic notarized document system

**AMEX**—American Express

**AMH**—automated message handler

**AMI**—advanced manufacturing initiative

**AMIP**—Army model improvement program

**AMM**—automated maintenance management

**AMMPEC**—advanced materials and manufacturing processes for an economic competitiveness

**AMMS**—automated maintenance and management system

**AMO**—1. Albuquerque Microelectronics Operations (formerly Bendix Albuquerque Operations) 2. aerial measurement operation

**amp**—ampere (also written as A)

**AMPL**—Advanced Manufacturing Processes Laboratory (formerly the Process Development Laboratory)

**AM-PM**—amplitude modulation/phase modulation

**AMPS—airborne multisensor pod system**

**AMR—Atlantic Missile Range**

**AMRAAM—advanced, medium-range, air-to-air missile**

**AMS—1. assets management system  
2. aerial measuring system 3. American Society for Metals**

**AMSAA—Army Materiel System Analysis Activity**

**AMSL—above mean sea level**

**AMT—1. advanced munitions technology  
2. asbestos management team 3. advanced manufacturing technology**

**amu—atomic mass unit (American Institute of Physics)**

**An—actinon (chemical symbol)**

**ANC—Aerojet Nuclear Corporation**

**AND—advanced nuclear demolition**

**ANDES—antinuclear demonstrators**

**ANFO—ammonium nitrate and fuel oil**

**ANI—automatic number identification**

**ANL—1. Argonne National Laboratory  
2. Aberdeen National Laboratory**

**ANL-E—Argonne National Laboratory East (Chicago)**

**ANL-W—Argonne National Laboratory West (at INEL)**

**ANMC—American National Metric Council**

**ANN—artificial neural network**

**ANS—1. American Nuclear Society 2. aerospace nuclear safety**

**ANSC—automated nuclear survivability criteria**

**ANS-ENS—American Nuclear Society/ European Nuclear Society**

**ANSI—American National Standards Institute**

**ANSP—advanced nuclear systems and projects**

**ANT—advanced nosetip test**

**Anti-C—anti-contamination**

**ANWD—alphanumeric wall display**

**ANWSS—Army nuclear weapons storage site**

**AO—1. auxiliary office 2. action officer**

**AOA—1. angle of attack 2. as-ordered agreement 3. airborne optical adjunct**

**AOC—1. area of concern 2. area of contamination 3. administrative order on consent**

**AOI—and-or invert (computers)**

**AOR—acknowledgment of receipt**

**AOSS—automated office support system**

**AOT—allowed outage time**

**AP—1. asbestos phenolic 2. Associated Press  
3. action plan 4. administrative procedure**

**APACHE—advanced parallel chemistry**

**APAR—automated plutonium recording**

**APAS—automated plutonium assay system**

**APBA—actuator and pulse battery assembly**

**APC—1. armored personnel carrier  
2. automated PAL controller**

**APCHS**—automated PAL code handling system

**APCVD**—atmospheric pressure chemical vapor deposition

**APD**—1. advanced planning document  
2. Albuquerque Police Department

**APF**—assigned protection factor

**APG**—Aberdeen Proving Ground (Maryland)

**APH**—(Fort) Apache Hill, Virginia

**APHA**—American Public Health Association

**API**—1. American Petroleum Institute  
2. atmospheric pressure ionization  
3. associated particle imaging  
4. application programming interface 5. axial power indicator

**APL**—1. Advanced Physics Laboratory  
2. Applied Physics Laboratory

**APM**—1. appraisal project manager  
2. axial power monitor

**approx**—approximate (used only in tabulations and figures)

**APR**—1. airborne profile recorder (see TPR)  
2. action plan requirement

**A-Primed**—agility primed: agile product realization for innovative electromechanical devices

**APRW**—acquisition planning requirements worksheet

**APS**—1. American Physical Society  
2. active protection system 3. accelerated procurement system

**APSAHD**—adaptive processor, seismic acoustic helicopter detector

**APSL**—Albuquerque Primary Standards Laboratory (DOE)

**APSPID**—adaptive processor, seismic personnel intrusion detector

**APT**—1. Alliance for Photonic Technology  
2. Automatic Programming Tool (computers)

**AQAP**—acceptance and quality assurance provisions

**AQCA**—Air Quality Control Act

**AQCR**—air quality control regulation (Bernalillo County)

**AQES**—air energy study

**AQL**—acceptable quality level

**AR**—1. annual report 2. as required  
3. administrative requirement

**A&R**—appraisal and review

**ARA**—1. applicable or relevant and appropriate (requirement) 2. airborne radioactivity area

**ARAC**—atmospheric release advisory capability

**ARBN**—Army battalion

**ARC**—1. Acquisition Review Committee  
2. accident resistant container 3. Architectural Research Consultants

**ARCCC**—Accident Response Capability Coordinating Committee

**ARCUS**—Arctic Research Consortium of the US

**ARD**—Army readiness date

**ARDEC**—Army Research and Development Engineering Center (Picatinny Arsenal, NJ)

**ARDU**—advanced radiation (detection capability) data unit

**ARE**—aerothermal reentry experiment

**ARES**—1. advanced reentry system  
2. advanced railroad electronics system

**ARF**—augmentation reserve force

**arg**—argument

**ARG**—accident response group

**ARH**—antiradiation homing

**ARI**—1. Army Research Institute  
2. alternate rod insertion

**ARIEL**—Advanced Radar Image Exploitation Laboratory

**ARL**—1. Army Research Laboratory  
2. acceptable reliability level  
3. Aerospace Research Laboratories

**ARM**—atmospheric radiation measurement

**ARMS**—1. aerial radiological measuring system (Army) 2. Armor School (Army)

**ARO**—after receipt of order

**AROD**—airborne remotely operated vehicle

**ARP**—alarm response procedure

**ARPA**—1. Advanced Research Projects Agency (formerly DARPA)  
2. Archaeological Resources Protection Act (1979)

**ARRIS**—active rate reducer and inflation system

**ARS**—advanced reactor safety

**ART**—1. armed response team 2. alarm response team 3. airborne response team 4. arsenal release and transport program

**ARTAC**—Applied Research and Technical Activity Committee

**AR&TD**—advanced research and technology development

**ARTI**—advanced rotorcraft technology integration

**ARTY FDC**—Artillery Fire Direction Center (Army)

**aS**—absiemen (formerly abmho)

**As**—atmosphere (standard)

**AS**—1. airspeed 2. antenna sites 3. Allied Signal (BKC) 4. aviation safety 5. Active stockpile

**ASA**—1. American Standards Association (obsolete; now USA Standards Institute)  
2. administrative staff associate

**ASAP**—1. as soon as possible 2. advanced seismic array program

**ASARC**—Army System Acquisition Review Council

**ASAS**—all source analysis system

**ASAT**—antisatellite

**asb**—apostilb (also known as blandel)

**ASB**—Army Science Board

**ASBDU**—Advanced System B Data Unit

**ASC**—ABRES shape charge

**ASCE**—American Society of Civil Engineers

**ASCI**—accelerated strategic computing initiative (DOE's strategy to move nuclear design from a test-based approach to a simulation-based approach)

**ASCID—AUTODIN satellite interface compensation device**

**ASCII—American standard code for information interchange (computer program)**

**ASCOT—atmospheric studies in complex terrain**

**ASD—1. adversary sequence diagram  
2. Aeronautical Systems Division (Air Force)  
3. Assistant Secretary of Defense**

**ASDP—Assistant Secretary for Defense Programs**

**ASE—1. antenna shield enclosure  
2. applicant system enhancement**

**AS&E—American Science and Engineering**

**ASEC—Applied Solar Energy Corporation**

**ASEM—Assistant Secretary for Environmental (Restoration and Waste) Management**

**ASHRAE—American Society of Heating, Refrigerating, and Air Conditioning Engineers**

**ASIC—application-specific integrated circuit**

**ASIG—Albuquerque special interest group**

**AS/KCD or AS/KCP—Allied Signal/ Kansas City Division (or Kansas City Plant) (see also BKC and KCD)**

**AskPMS—Ask Property Management System**

**ASM—1. air-to-surface missile  
2. adversary sequence modeling  
3. American Society for Metals**

**ASMD—anti-ship missile defense**

**ASME—American Society of Mechanical Engineers**

**ASMS—advanced strategic missile systems**

**ASNT—American Society of Nondestructive Testing**

**ASO—Administrative Support Office**

**ASOC—Air Support Operations Center**

**ASP—1. automated signal processor 2. accident sequence precursor**

**ASQC—American Society for Quality Control**

**ASR—anelastic strain recovery**

**ASRAAM—advanced, short-range, air-to-air missile**

**ASROC—anti-submarine rocket**

**ASSE—American Society of Safety Engineers**

**ASSESS—analytic system and software for evaluating safeguards and security**

**ASSIST—automated system security incident support team (DoD)**

**ASSP—advanced small-site program**

**assy—assembly**

**AST—1. airborne surveillance testbed  
2. above-ground storage tanks**

**ASTM—1. American Society for Testing Materials 2. American standard for test methods**

**ASTX—(battery-powered sensor/ transmitter)**

**ASV—adaptive suspension vehicle**

**ASW—1. anti-submarine warfare 2. air-to-surface weapon (see ASM)**

**ASWAT—air solid waste assessment test**

**asym—asymmetric**

**at—atomic**

**at.%—atomic percent**

**At—1. ampere-turn 2. astatine (chemical symbol)**

**AT—1. advanced technology 2. applied technology 3. armored tractor**

**ATA—automatic target acquisition**

**ATACMS—Army Tactical Missile System**

**ATAF—Allied Tactical Air Force (NATO)**

**ATBM—advanced tactical ballistic missile**

**ATBMP—Army technology base master plan**

**ATC—assembly test chip**

**ATD—advanced technology demonstration**

**ATE—1. automatic test equipment 2. all-terrain equipment**

**ATES—autonomous targeting and engagement system**

**ATFD—absolute time-firing device**

**ATFES—Army tactical frequency engineering system**

**ATIS—air transportable instrumentation shelter**

**ATL—automatic tape library**

**atm—atmosphere (a unit of pressure equal to 1.013250 x 10<sup>6</sup> dynes/cm<sup>2</sup>)**

**At/m—ampere-turn per meter**

**ATM—1. asynchronous transfer mode 2. anti-tactical missile**

**ATMS—automatic transmission measuring system**

**ATMX—atomic munition explosive rail transport car**

**ATP—1. alignment and testing procedures 2. aiming, tracking, and pointing 3. advanced technology program**

**ATR—automatic target recognition**

**ATS—1. administrative terminal system (computers) 2. aerothermal structure 3. automatic transfer switch 4. action tracking system**

**ATSD/AE—Assistant to the Secretary of Defense for Atomic Energy**

**ATSDR—agency for toxic substances and disease registry**

**AT&T—American Telephone and Telegraph**

**ATTV—advanced teleoperator test vehicle**

**ATV—1. Army test vehicle 2. all-terrain vehicle**

**ATW—accelerator transmutation of nuclear waste**

**at. wt—atomic weight**

**a.u.—atomic unit**

**Au—gold (chemical unit)**

**AU—1. astronomical unit 2. authentication unit 3. acousto-ultrasonics**

**AUR—all-up-round**

**Auth Code—authorization code (or number)**

**AUTOCONET—automatic communications network**

**AUTODIN—automated digital information network**

**AUTOSEVOCOM**—automatic secure voice communications

**AUTOVON**—automatic voice network

**AUVS**—Association of Unmanned Vehicle Systems

**aux**—auxiliary

**aV**—abvolt

**AVA**—Automated Vision Association (obsolete; now Automated Imaging Association)

**AVC**—automatic volume control

**AVDS**—Aviation Depot Squadron

**avg/ave/av**—average (avg is the most common; ave is used mostly in subscripts; av is seldom used)

**AVI**—audio video interleaved

**AVIS**—American visit (refers to a visit to the US by a member of the UK)

**AVRADA**—Avionics Research and Development Activity (Fort Monmouth, NJ)

**AVS**—1. access validation system  
2. Avionics Depot Squadron 3. American Vacuum Society

**AVSCOM**—Aviation Systems Command (Army)

**AW**—1. atomic weapon 2. atomic warhead

**AWACS**—airborne warning and control system

**AWD**—atomic weapon data (obsolete; now nuclear weapon data)

**AWDS**—automated weather distribution system

**AWE**—Atomic Weapons Establishment (England)

**AWE(A)**—Atomic Weapons Establishment, Aldermaston in Reading, Birkshire, England

**AWE(B)**—Atomic Weapons Establishment, Burghfield in Reading, Birkshire, England

**AWG**—American wire gage

**AWLPG**—Albuquerque (Operations) Workload Planning Guide (DOE)

**AWMA**—Air and Waste Management Association

**AWOC**—Alternate Wing Operations Center

**AWRE**—Atomic Weapons Research Establishment (England)

**AWRS**—average weighted residual squared

**AWS**—American Welding Society

**AWSB**—Atomic Weapons Safety Board

**AWSC**—analyst work space component

**AWTG**—atomic weapons training group

**AWU**—Association of Western Universities

**AWVS**—Albuquerque winter visibility study

**AWWA**—American Water Works Association

## **B**

**b**—1. barn (unit of area: 1024 cm<sup>2</sup>) 2. bit (binary digit) bit is seldom abbreviated unless it is used with a prefix, as in 8 kb



**B**—1. bel (logarithmic ratio) 2. brewster (optics) 3. bomb (when used with a number, as in B-52) 4. bridge

**BA**—1. basic assembly 2. budget authority

**BAA**—business area analysis

**BAC**—1. Boeing-Aerospace Company  
2. Budget Advisory Committee (SNL)  
3. bond additive corrections

**BACT**—best available control technology

**BADT**—best available developed technology

**BA&E**—Boeing-Aerospace and Electronics

**BAF**—backup alert force

**BAFO**—best and final offer

**BAM**—ballistic advance missile

**BANCS**—Bell Administration Network Communications System

**BAO**—Bendix Albuquerque Operations (obsolete; see KCD or AS/KCD)

**BARS**—1. Bell audit related system  
2. behavioral anchored rating system

**BART**—1. best available retrofit technology 2. Bay Area Rapid Transit (Sandia, CA)

**BAS**—1. Bell audit system 2. Boeing advanced systems

**BASIC**—beginner's all-purpose symbolic instruction code (a computer language)

**BASTEC**—Bay Area Science and Technology Education Collaboration

**BAT**—best available technology

**BBB**—bisbenzimidazobenzophenanthroline (a polymer)

**BBC**—1. balanced biological community  
2. British Broadcasting Corporation

**bbl**—barrel

**BCA**—battery control area

**bcc**—body-centered cubic

**BCC**—Battery Control Center

**BCD**—binary coded decimal

**BCH**—Bose-Chadhuri-Hacqueghem

**BCL**—Battelle Columbus Laboratories

**BCO**—Bendix Connector Operations

**BCR**—bar code reader

**BCTK**—boron calcium chromate titanium potassium perchlorate

**Bd**—baud (a variable unit of data transmission speed—that is equal to one bit per second)

**BDA**—battle damage assessment

**BDADS**—beacon data acquisition and display system

**BDAI**—best demonstrated available technology

**BDAT**—best demonstrated available technology

**Bde**—brigade

**BDM**—Braddock, Dunn, and McDonald

**BDP**—battlefield development plan

**BDS**—1. British Defence (British spelling) Staff 2. basic door structure

**BDT**—burst delay timer

**BDU**—1. bomb dummy unit 2. battle dress uniform

**°Bé**—degrees Baume (used in the Baumé temperature scale)

**BE**—binding energy

**BECTU**—Boeing Electrical Compatibility Unit

**Benelux**—Belgium, the Netherlands, and Luxembourg

**BeO**—beryllium oxide

**BEP**—Bureau of Engraving and Printing

**BERC**—Bartlesville Energy Research Center

**BERL**—Burner Engineering Research Laboratory (SNL)

**BES**—basic energy sciences

**BET**—Brunauer-Emmett-Teller (equation)

**BETA**—battlefield exploitation and target acquisition

**BeV**—billion electron volts (now obsolete; use GeV)

**BFA**—blank fire adapter

**BFO**—beat-frequency oscillator

**BFOQ**—bona fide occupational qualification

**BFPC**—Buildings and Facilities Planning Committee

**BG**—blanket gas

**BGM**—ballistic guided missile

**BGS**—below ground surface

**Bi**—biot (use aA, abampere, instead)

**BIA**—Bureau of Indian Affairs

**BIC**—Braduskill Intercept Concept

**BIF**—boiler/industrial furnace

**BIM**—1. ballistic intercept missile  
2. barrier integrity monitor

**BIRD**—bilinear rotation decoupling

**BIS**—1. business information systems  
2. bomb interface simulator

**BISDN**—broad-band integrated services digital network

**BISMAPS**—business information system modeling and planning system

**BISP**—business information systems program

**BISS**—base and installation security system

**BISSPO**—BISS Program Office

**bit**—binary digit (See b)

**BIT**—1. built-in test 2. boron injection tank

**BITE**—built-in test equipment

**BIUA**—bus interface unit, audio

**BIUD**—bus interface unit, digital

**BIUD/M**—bus interface unit, digital/modem

**BIUM**—bus interface unit, modem

**BIX**—byte information exchange

**BKC**—Bendix, Kansas City (obsolete; now the Kansas City Division of the Allied Signal Aerospace Corp. See KCD or AS/KCD)  
**bkgd**—background

**BKW-EOS**—Becker-Kistiakowsky-Wilson equation of state

**BL**—baseline

**BLID**—buried line intrusion detector

**BLM**—Bureau of Land Management

**BLS**—1. Bureau of Labor Statistics  
2. basic life support

**BM**—Bureau of Mines

**BMC**—Ballistic Missile Center

**BMD**—ballistic missile defense

**BMDATC**—Ballistic Missile Defense  
Advanced Technology Center

**BMDO**—Ballistic Missile Defense Office

**BMDSCM**—Ballistic Missile Defense System  
Command

**BMEWS**—ballistic missile early warning  
system

**BMHA**—building modifications hazards  
assessment

**BMO**—Ballistic Missile Office

**BMP**—1. battle management plan 2. best  
management practice

**BMS**—1. balanced magnetic switch (or sensor)  
2. battlefield management system 3. business  
management system

**BN**—battalion

**BNA**—Bureau of National Affairs

**BNC**—(connector developed by) Bayonet,  
Neill, and Concelman

**BNFP**—Barnwell Nuclear Fuel Plant (South  
Carolina)

**BNI**—Bechtel National, Incorporated

**BNL**—Brookhaven National Laboratory

**BNWL**—Battelle Northwest Laboratory

**BO**—budget outlay (or obligation)

**B/O**—blackout

**BOA**—basic ordering agreement

**BOD**—biochemical oxygen demand

**BOLT**—basic occupational literacy test

**BOP**—blowout prevention

**BOR**—burnout risk

**BOSF**—burnout safety factor

**BOSFn**—nominal burnout safety factor

**bp**—boiling point

**BP**—1. Bandpass 2. below performance

**bpF**—boiling point (degrees Fahrenheit)

**BPG**—boron pyrolitic graphite

**bpi**—bits per inch

**BPR**—business process reengineering

**bps**—bits per second

**BPS**—1. boundary penetration sensor  
2. Boeing Petroleum Services

**BPT**—best practical technology

**BPV**—back pressure valve

**Bq**—becquerel (associated with ionizing  
radiation; now obsolete)

**Br**—bromine (chemical symbol)

**B&R**—budget and reporting

**BRA**—bomb relay assembly

**BRADC—Belvoir Research and Development Center**

**BRC—below regulatory concern**

**BRDEC—Belvoir Research, Development, and Engineering Center**

**BRDF—bi-directional reflectance distribution function**

**BRES—buoy repeater system**

**BRI—basic rate interface**

**BRL—Ballistic Research Laboratory (Aberdeen, Maryland)**

**BRL-CAD—Ballistics Research Laboratory—computer-aided design**

**BRMD—Budget Resources Management Division (DOE)**

**BRP—Big Rock Point**

**BRT—bioassay review team**

**b/s—bits per second; bps is preferred**

**BSD—business system design**

**BSI—British Standards Institute**

**BSO—Ballistic Systems Office (Air Force)**

**BSR—bulk shielding reactor**

**BSS—borehole seismic system**

**BSTS—1. burst surveillance and tracking system 2. boost surveillance and tracking system**

**BS&W—basic sediments and water**

**BTC—barbed tape concertina**

**BTDR—building time delay relay**

**BTE—battery timing equipment**

**BTEX—benzene, toluene, ethylbenzene, and xylene**

**BTI—Battery Technology Institute**

**BTL—Bell Telephone Laboratories, Inc. (use only informally, such as in internal memorandums; for formal reports, use Bell Laboratories or Bell Labs)**

**Btu—British thermal unit**

**BTX—benzene-toluene-xylene**

**BW—1. bandwidth 2. biological warfare 3. bridgewire**

**BWG—Birmingham wire gage**

**BWM—balance with motion**

**BWO—backward-wave oscillator**

**BWR—boiling-water reactor**

**BWST—borated water storage tank**

**BY—budget year**

**BZ—buckled zone**

## **C**

**c—centi- (a prefix indicating 10<sup>-2</sup>; use mm instead)**

**C—1. capacity 2. capacitance 3. circumference 4. coulomb (quantity of electricity in electrons) 5. Confidential**

**(C—degrees Celsius**

**C2—command and control**

**C3—command, control, and communications (also CCC)**

**C4—command, control, communications, and computers**

**ca—circa (use with dates only)**

**Ca—calcium**

**CA—1. custodial agent 2. corrective action 3. clean air 4. contamination area 5. cooperative agreement**

**C/A Code—coarse acquisition code**

**CAA—1. Clean Air Act 2. critical assembly area**

**CAAMS—criterion affirmative action management system**

**CAAPS—criterion affirmative action planning system**

**CAB—Civil Aeronautics Board**

**CABAL—calcium-modified boroaluminate**

**CABRA—Copper and Brass Research Association**

**CACC—Credibility Assessment Coordinating Center**

**CACDA—Combined Arms Center (or Combat) Development Activity (Fort Leavenworth, KS)**

**CACECO—calculation (of sodium spills) in cells for containment (a computer program)**

**CAD—1. computer-aided design 2. corrective action design**

**CAD/CAM—computer-aided design/ computer-aided manufacturing**

**CADD—computer-aided design and drafting**

**CAE—computer-aided engineering**

**CAE/RS—computer-aided engineering/ rocket system**

**CAES—compressed-air energy storage**

**CAESAR—catalytic enhanced solar absorption receiver**

**CAF—command authority function**

**CAFMS—computer aided air force management**

**CAG—customer advisory group**

**CAGEC—commercial and government entity code**

**CAGINS—center advisory group for information systems**

**CAI—1. computer-aided instruction 2. certified asbestos inspector**

**CAIN—controlled access by individual number**

**CAIRS—computerized accident/incident reporting system**

**CAIS—1. coded aperture imaging system 2. Chief Architect of Information Systems**

**cal—calorie (joule is preferred)**

**CAL—1. Conversational Algebraic Language (computers) 2. completely assembled for launch**

**calc—calculated**

**CALS—computer-aided acquisition and logistics support**

**CALSON—computer-aided acquisition and logistic(s) support operational network**

**CAM—1. completely assembled missile**

2. continuous air monitor 3. computer-aided manufacturing 4. computer-assisted makeup 5. content-addressed memory

**CAMA**—centralized automatic message accounting

**CAMAS**—central alarm monitoring and assessment system

**CAMD**—computer-aided molecular design

**CAMI**—Civil Aeromedical Institute

**CAMP**—1. crypto algorithm message processor 2. capital assets management program 3. corporate asbestos management program

**CAMPS**—computer assisted mission planning system

**CAMS**—cybernetic anthropomorphous machine system

**CAMU**—corrective action management unit

**CAN**—clean air network

**CANDU**—Canadian deuterium uranium (a reactor)

**CAO**—Carlsbad Area Office (DOE)

**CAORA**—Combined Arms Operation Research Activity (Army)

**CAP**—1. code-activated processor 2. computer-aided plotting 3. corrective action plan 4. consolidated action plan

**CAPE**—capability and proficiency evaluation

**CAPRS**—compensation and performance review system

**CAPS**—computer automated publishing system

**CAR**—corrective action report

**CARC**—containment air recirculating and cooling

**CARD**—1. computer-aided remote driving 2. Citizens for Alternatives to Radioactive Dumping

**CART**—cloud and radiation testbed

**CAS**—1. calibrated airspeed 2. compressed-air storage 3. close air support 4. central alarm station 5. chemical abstract services 6. condition assessment survey 7. cost accounting standards 8. completely assembled for strike

**CASE**—computer-aided software engineering (or environment)

**CASM**—Community Academy for Science and Mathematics

**CASP**—comparative analysis of standards program (computers)

**CASR**—Center for Aviation System Reliability

**cat**—category

**CAT**—1. clear-air turbulence 2. computer-aided tomography 3. Conductor Analysis Technologies, Inc. 4. computerized axial tomography

**CATCOMS**—credibility assessment team communications system

**CATNIP**—computer analysis tool for normal impact penetration (computers)

**CATS**—1. computer-assisted tracking system 2. computerized appraisal tracking system

**CATV**—1. community antenna television 2. cable television

**CAW**—channel address word

**CBA—compressed breathing air**

**CBC—cipher-block chaining**

**CBD—Commerce Business Daily**

**CBI—1. computer-based instruction  
2. confidential business information  
3. Compton backscatter imaging (or inspection)**

**CBM—cooperative business management**

**CBP—1. Chicago bulletproof (doors)  
2. convolution back projection**

**CBR—chemical, biological, radiological**

**CBT—computer-based training**

**cc—1. cubic centimeter (use cm<sup>3</sup> instead)  
2. carboncarbon (composite)**

**c.c.—complex conjugate**

**CC—1. core competencies 2. counter-counter-measure (see CCM) 3. Coronado Club 4. contamination control  
5. Computer Committee 6. carbon copy**

**C-C—could-to-cloud**

**CCA—circuit card assembly**

**CCAD—command-coded arming device**

**CCB—1. Configuration Control Board  
2. Change Control Board**

**CCC—1. command, control, and communications (also written as C3)  
2. Crisis Coordination Center**

**CCD—1. charge-coupled device  
2. camouflage, concealment, and deception (sometimes written as CC&D)  
3. cockpit command disablement**

**CCDF—complementary cumulative distribution function**

**CCE—Center for Computational Engineering  
2. certification of claim for exemption**

**CC&E—contractor's choice and expense**

**CCF—1. common cause failure 2. central computing facility**

**CCHD—central computing help desk**

**CCHP—Corporate Chemical Hygiene Plan**

**CCIO—contractor counter-intelligence officer**

**CCIP—core competency in-reach project**

**CCIR—Consultative Committee on International Radio (European Standard)**

**CCITT—Consultative Committee on International Telephone and Telegraph**

**CCIU—command and control interface unit**

**CCL—commodities control list**

**CCM—1. central control module  
2. counter-countermeasure (see CC)**

**CCN—central computing network**

**CCO—1. chargeable cost objective  
2. corporate contractual obligation**

**CCP—controlled component protection**

**C/CPIP—Code of Conduct Personal Integrity Program**

**CCPDS—Command Center processing and display system**

**CCR—1. cyclic catalytic reforming  
2. corporate customer requirement**

**CCS—Central Control Station**

**CCS2—command and control subordinate system**

**CCST**—center for compound semiconductor technology

**CCT**—current contrast imaging

**CCTC**—Coyote Canyon Test Complex

**CC test**—component compliance test

**CCTV**—closed-circuit television

**CCVT**—coupling capacitor voltage transformer

**ccw**—counterclockwise

**CCW**—1. channel command word  
2. component cooling water

**cd**—candela (a measurement of luminous intensity)

**CD**—1. computer diode 2. command disable (or disablement) 3. command destruct 4. control drawing  
5. compatibility drawing (or document)  
6. control document (as in CD453826)  
7. consent decree

**C/D**—charge/discharge

**CDA**—Core Disruptive Accident (see HCDA)

**CDB**—classified database

**CDAM**—crypto device adapter modules

**CDAS**—classified document accountability system

**CDC**—1. cumulative defects criteria  
2. Control Data Corporation 3. Center for Disease Control

**CDD**—conventional (munition) demilitarization and disposal (technology)

**CDEC**—Combat Developments Experimentation Command (Army)

**CDF**—1. central distribution facility  
2. combustion dynamics facility 3. core damage frequency

**cd/ft<sup>2</sup>**—candela per square foot

**CDI**—common data input

**CDIRS**—common data input and retrieval system

**CDIU**—control display interface unit

**CDL**—commercial driver's license

**CDM**—1. continuous dispensing masker 2. code-division multiplex

**cd/m<sup>2</sup>**—candela per square meter

**CDMS**—1. computerized document management system 2. central data management system

**CDOCS**—classified document control system

**CDOS**—Cromemco disk operating system

**CDPS**—CMS data production system

**CDR**—1. critical design report 2. complete design release 3. conceptual design review

**C&DR**—characterization and development report

**CDRL**—contractor data requirements list

**CD-ROM**—compact disk/read only memory

**CDS**—1. command disablement system 2. control and display system

**CDT**—corporate diversity team

**CDU**—capacitor discharge unit

**Ce**—cerium (chemical symbol)



**CE**—1. Corps of Engineers 2. capital equipment 3. consistently exceeds 4. communications electronics 5. combustion engineering

**CEA**—American translation from French: French Atomic Energy Commission

**CEARP**—Comprehensive Environmental Assessment and Response Program (DOE)

**CEB**—corporate ethics board

**CEC**—1. Capital Equipment Committee 2. Computing Education Center 3. cation exchange capacity 4. Commission of European Communities

**CECOM**—Communications Electronics Command (Army)

**CEDE**—committed effective dose equivalent

**CEE**—courier elevated eyes

**CEEEC**—committee on energy, environment, and economic competitiveness

**CEG**—corporate ergonomics group

**CEES**—1. camouflage effectiveness evaluation system 2. committee on earth and environmental sciences

**CEG**—corporate ergonomics group

**CEL**—1. Civil Engineering Laboratory (Navy) 2. commercial equipment list 3. channel effluent limit

**CELS**—coded explosive logic system

**CEM**—1. channel electron multiplier 2. crew escape module 3. continuous emission monitor

**CENEF**—Joint US/Russian Center for Energy Efficiency

**CENSEI**—Center for System Engineering and Integration

**CENTAG**—Central Army Group (NATO)

**CENTCOM**—Central Command

**CENTO**—Central Treaty Organization

**CEO**—chief executive officer

**CEOI**—communications/electronics operating instructions

**CEP**—1. circular error probability (ICBM impact accuracy) 2. Concept Evaluation Program 3. Career Exploration Program (Alb. Public Schools) 4. catalytic extraction processing 5. controls for environmental pollution

**CEPP**—chemical emergency preparedness program

**CEQ**—Council on Environmental Quality

**CER**—complete engineering release

**CERCLA**—Comprehensive Environmental Response, Compensation, and Liability Act

**CERL**—1. commercial equipment requirements list 2. Construction Engineering Research Laboratory

**CERN**—1. Conseil Européen Pour Recherches Nucléaires (Translation: European Council for Nuclear Research/Switzerland) 2. Controller Establishment for Nuclear Research (UK equivalent of DOE)

**CERT**—computer emergency response team (DoD)

**CES**—code enabling switch (or system)

**CESH**—Corporate Environmental Safety Health (Lockheed Martin)

**CEWG—containment and effects working group**

**cf—compare**

**Cf—californium (chemical symbol)**

**CF—1. customer funded 2. containment failure**

**CF4—commodities control list**

**CFA—1. covering force area 2. central facility area 3. cross-field amplifier 4. cognizant federal agency**

**CFC—1. Combined Forces Command (Korea) 2. chlorofluorocarbon (or chlorinated fluorocarbon) 3. Conax Florida Corporation**

**CFD—computational fluid dynamics**

**CFE—conventional forces in Europe**

**cfm—cubic feet per minute (ft<sup>3</sup>/min preferred)**

**CFM—contamination-free manufacturing**

**CFMRC—Contamination Free Manufacturing Research Center**

**CFO—Chief Financial Officer**

**CFPO—customer funded program office**

**CFR—1. commercial fast breeder reactor 2. Code of Federal Regulations**

**CFRD—confidential, formerly restricted data**

**cfs—cubic feet per second (ft<sup>3</sup>/s preferred)**

**CFS—conventional firing set**

**CFTM—captive and flight test missile**

**CFU—central function unit**

**CFS—core flood system**

**CFY—current fiscal year**

**cg—centigram**

**CG—1. center of gravity 2. Commanding General 3. Classification guide**

**C-G—cloud-to-ground**

**CGA—1. carrier group alarm 2. color-graphic adapter**

**CGC—color-graphics controller**

**CGI—1. computer graphics interface 2. combustible gas indicator**

**CGM—computer graphics metafile**

**cgs—centimeter-gram-second (use of all units particular to this system is discouraged by SI)**

**CGS—CONUS Ground Station**

**CGTIS—cradle-to-grave tracking information system**

**CHAERSE—Center for Hungarian-American Environmental Research Studies and Exchange**

**CHAMMP—computer hardware, advanced mathematics and model physics**

**chan—channel**

**CHARMS—computerized hazard and record-management system**

**CHC—chlorohydrocarbons (or chlorinated hydrocarbons)**

**CHE—conventional high explosive (see IHE)**

**Chelyabinsk-70—All Russian Scientific Research Institute for Technical Physics: see VNIITF**

**ChemIServe—Chemical Information Service (see CIS)**

**CHEMKIN—chemical kinetics (computers)**

**CHEMS—chemical hazards emergency management system**

**CHR—confinement heat removal**

**CHTM—Center for High Technology Materials**

**CH-TRU—contact-handled transuranic (waste)**

**Ci—curie (unit of radioactivity)**

**CI—1. confident informants 2. counter-intelligence**

**C3I—command, control, communications, and intelligence**

**CIA—1. Central Intelligence Agency  
2. control indicator assembly**

**CIAC—computer incident advisory capability (DOE)**

**CIB—Centralized Intercept Bureau**

**CIC—1. COMSEC intelligence controller  
2. Combat Information Center  
3. compensated ion chamber**

**CICS—customer information control system**

**CID—charge injection device**

**CIE—1. Commission Internationale de l'Eclairage 2. cost impact estimate**

**CIHS—classified information handling system (European TV standards)**

**CIL—1. critical items list 2. computer inoperative limits**

**CIIMA—contractors image and information management association**

**CIK—crypto ignition key**

**CILRT—containment integrated leak rate test**

**CIM—1. computer integrated manufacturing  
2. corporate information management**

**CIMET—Center for Intelligent Manufacturing and Environmentally Conscious Technology**

**CIMS—CRADA Information Management System**

**CIN—cervical intraepithelial neoplasia**

**CINC—1. Commander-in-Chief  
2. Commander-in-Charge**

**CINCADCOM—Commander-in-Chief, Aerospace Defense Command**

**CINCAFCENT—Commander-in-Chief, Allied Forces Central (Europe)**

**CINCEASTLAND—Commander-in-Chief, East Atlantic**

**CINCELM—Commander-in-Chief, Eastern Atlantic and Mediterranean (Navy)**

**CINCEUR—Commander-in-Chief, Europe**

**CINCFE—Commander-in-Chief, Far East**

**CINCLANT—Commander-in-Chief, Atlantic (US)**

**CINCMEAFSA—Commander-in-Chief, Middle East, Africa (South of Sahara), and Southern Asia**

**CINCNORAD—Commander-in-Chief, North American Air Defense**

**CINCPAC—Commander-in-Chief, Pacific Command (US)**

**CINCRED—Commander-in-Chief, Readiness Command**

**CINCSpace**—Commander-in-Chief for Space

**CINCSPECOMME**—Commander-in-Chief, Specified Command, Middle East

**CINCUNC**—Commander-in-Chief, UN Command

**CINCUSAEUR**—Commander-in-Chief, United States Army, Europe

**CINCUSNAVEUR**—Commander-in-Chief, United States Navy, Europe

**CINDY**—computerized internal dosimetry (software package)

**CIO**—Chief Information Officer

**CIP**—consumer-identified product

**cir**—circuit (also ckt)

**cir mil**—circular mil (also written as cmil)

**CIS**—1. Commonwealth of Independent States  
2. classified information system  
3. Chemical Information Service (also called ChemIServe)

**CIT**—1. compact ignition tokamak  
2. critical incident technique

**CIVA**—charge-induced voltage alteration

**CIWS**—close-in weapon support

**CJCS**—Chairman, Joint Chiefs of Staff

**ckt**—circuit (also cir)

**Cl**—chlorine (chemical symbol)

**CL**—centerline

**CLAZAS**—clad axial (Z-direction) motion in subassemblies (computers)

**CLC**—1. central (or command) logic and control  
2. current-limiting conductor

**CLCS**—closed-loop control system

**CLEO**—classified energy on-line

**CLERVER**—clients and servers (SNL software)

**CL&F**—common look and feel

**CLIF**—Chemistry Lirrac Irradiation Facility

**CLNS**—connectionless network services

**CLP**—contract laboratory program

**CLS**—central locator system

**CLS DET**—closure detect

**cm**—centimeter

**c.m.**—center of mass

**cm<sup>2</sup>**—centimeter squared

**cm<sup>3</sup>**—cubic centimeter

**c/m<sup>2</sup>**—incorrect; see cd/m<sup>2</sup>

**Cm**—Curium (chemical symbol)

**CM**—1. container module  
2. Countermeasure  
3. core melt  
4. configuration management

**CMA**—Chemical Manufacturers Association

**CMAH**—Commander-in-Chief Mobile Alternate Headquarters

**CMAS**—classified material accountability system

**CMC**—1. central monitor control  
2. Cheyenne Mountain Complex  
3. Cooperative Monitoring Center

**CMCS—continuous monitor and control system**

**CMD—1. command 2. Configuration Management Document (a US-UK program)**

**CME—construction management engineer**

**cmf—circular mils/foot (electrical conductivity)**

**CMF—common-mode failure**

**CMFD—compressed magnetic field device**

**CMG—control moment gyros**

**CMGS—cruise missile guidance set**

**CMI—cruise missile interface**

**cmil—circular mil (also written as cir mil)**

**CMIS—crisis management intercom system**

**CMM—capability maturity model**

**CMOS—1. complementary metal-oxide semiconductor (Fast Adder)  
2. complementary metal-oxide on silicon**

**CMP—1. Center for Materials Production  
2. container module packaging**

**CMPLIS—continuous monitoring pH log-in system**

**cm/s—centimeters per second**

**CMS—1. control, monitor, and support  
2. common mapping system 3. code (or case) management system 4. corrective measures study 5. canister monitoring system**

**CMSD—code-multiplier sensor data**

**CMSU—Central Missouri State University**

**CMT—1. Center for Microelectronics Technologies 2. Crisis Management Team**

**CMTF—Collector Module Test Facility**

**CMU—control monitor unit**

**CMV—1. commercial motor vehicle  
2. counter-measures verification**

**CN—1. cemetery network 2. counter narcotics**

**CNC—computer numerically controlled**

**CNCE—communications nodal control element**

**CNDE—Center for Nondestructive Evaluation**

**CNES—Centre National d'Etudes Spatiales**

**CNF—1. cost: no fee 2. central network facility**

**CNHR—containment atmosphere heat removal**

**CNO—Chief of Naval Operations**

**CNRR—containment radioactivity removal**

**CNS—centralized nuclear surety**

**CNSAC—Center for National Security and Arms Control**

**CNWDI—critical nuclear weapon design information**

**Co—cobalt (chemical element)**

**CO—1. construction observer  
2. contracting officer**

**CO2—carbon dioxide**

**COA—1. charts of accounts 2. customer order administration**

**COAT—career opportunity for advancement training**

**coax—coaxial (cable)**

**COB—1. coordination of benefits 2. close of business 3. computer-on-a-board**

**COBOL—Common Business-Oriented Language (computers)**

**COBRA—1. Consolidated Omnibus Budget Reconciliation Act 2. Calculation of Flow in Rod Bundle Reaction Assemblies (computers)**

**COBRA DANE—Intelligence Phased Array Radar at Shemya, Alaska**

**COC—1. code of conduct 2. chain of custody 3. contaminants of concern**

**COCA—1. consent order and compliance agreement**

**COD—1. crack-opening displacement 2. chemical oxygen demand**

**COE—1. Corp of Engineers 2. certificate of equivalency**

**COEA—cost and operational effectiveness analysis**

**COED—computer-operated electronic display**

**COEES—Central Office equipment engineering system**

**COE/EUO—European Corps of Engineers**

**coef—coefficient**

**COGO—coordinated geometry (computers)**

**COGS—continuous orbital guidance system  
COI—certificate of inspection**

**COIN—counterinsurgency**

**Coker—Cokernel**

**COLA—cost of living adjustment**

**colog—cologarithm**

**COM—computer-output microfilm**

**COMET—computer-operated management evaluation technique**

**COMINT—Communications Intelligence (computers)**

**COMM—communications**

**COMMZ—communications zone**

**COMRADEX—effects of containment and meteorology on the environmental radiation exposure resulting from a power reactor accident (computers)**

**COMSAT—1. communications satellite  
2. Communications Satellite**

**COMSEC—communications security**

**COMTEN—Communications 10**

**COMUSK—Commander, US (Forces) in Korea**

**COMUSMACV—Commander, US Military Assistance Command, Vietnam**

**COMUX—combinatorial multiplex**

**CON—California open network**

**CONAD—Continental Air Defense (Command)**

**CONARC—Continental Army Command**

**conc—concentrate**

**const—constant**

**cont—1. continuous 2. continued**

**CONTRN—a computer language**

**CONUS—contiguous United States**

**conv—converter**

**COO—conduct of operations**

**COPE—critically ordered path evaluator (computers)**

**COQ—cost of quality**

**CORBA—common object request broker architecture**

**CORCON—core/concrete (interaction code)**

**CORDIVEM—Corps/Division Evaluation Model**

**CORRTEX—continuous reflective radius time experiment**

**cos—cosine**

**COS—1. Cray operating system 2. Chief of Staff**

**COSAL—coordinated shipboard/activity (allowance) list**

**cosh—hyperbolic cosine**

**COSL—cooled optically stimulated luminescence (see OSL)**

**COSMIC—common systems main inter-connecting**

**COSMOS—computer system for mainframe operations**

**cot—cotangent (sometimes abbreviated as ctg)**

**COT—consolidated operability test**

**cotar—correlated orientation tracking and range**

**cotat—correlated tracking and triangulation**

**coth—hyperbolic cotangent**

**COTS—commercial off-the-shelf**

**COV—counter-obstacle vehicle**

**COVAWT—cooperative vertical-axis wind turbine**

**COZI—communication zone indicator**

**cp—1. chemically pure 2. candlepower**

**cP—centipoise**

**CP—1. carbon phenolic 2. control point 3. command post**

**CPA—carboxypeptidase (a digestive enzyme)**

**CPAF—cost plus award fee**

**CPC—compound parabolic concentrator**

**CPCA—Committee for Persons with Challenged Abilities (DOE)**

**CPCM—certified professional contract managers**

**cpd—contact potential difference**

**CPD—1. central pulse distributor 2. continuing professional development**

**CPE—command post equipment**

**CPFF—cost plus fixed fee**

**CPG—Cummings Power Generation, Inc.**

**CPI—1. characters per inch 2. cost performance index**

**CPIA—Chemical Propulsion Information Agency**

**CPIF—cost plus incentive fee**

**CPIIC—Corporate and Personal Integrity Investigative Committee**

**C-PIP—Corporate and Personal Integrity Program**

**CPJ—chlorinated polyethylene jacket**

**Cpk—statistical process control**

**CPL—confinement protection limit**

**cpm—1. cycles per minute 2. counts per minute**

**CPM—1. critical path method (computers) 2. Center for Project Management**

**CPMS—1. cable pressure monitoring system 2. criteria pollutant monitoring station**

**CPPM—computer protection program manager**

**CPPSR—contractor personal property systems review**

**CPR—cardiopulmonary resuscitation**

**CPS—1. cycles per second; use Hz instead 2. certified professional secretary**

**CPSA—Consumer Product Safety Act (1972)**

**CPSR—contractor purchasing system review**

**CPSRC—Corporate and Personal Standards Review Committee**

**CPT—current procedural terminology**

**CPU—central processing unit**

**CPV—command post vehicle**

**CPX—command post exercise**

**CQA—Chairman's Quality Award (AT&T)**

**CQE—1. certified quality engineer 2. Corporate Quality Excellence (Program)**

**CQI—continuous quality improvement**

**CQM—certification, qualification, and monitoring**

**Cr—chromium (chemical symbol)**

**CR—1. catalytic reforming 2. contractor (also CTR) 3. contact resistance 4. change requisition 5. corporate requirements 6. community relations**

**CRA—Civil Rights Act**

**CRADA—Co-operative Research and Development Agreement**

**CRBRP—Clinch River Breeder Reactor Plant**

**CRC—1. Control and Reporting Center 2. cyclic redundancy check (or code) (computers)**

**CRCM—Comprehensive Regional Center for Minorities**

**CRD—1. civilian research and development 2. confidential restricted data**

**CRDEC—Chemical Research, Development, and Engineering Center**

**CREG—controlled reluctance eddy-current generator**

**CRF—1. Combustion Research Facility 2. central response force**

**CRFP—Cooperative Research Fellowship Program**

**CRL—Cook Research Laboratories**

**CRLB—Cramer-Rao Lower Bound**

**CRM—1. chemical remanent magnetization 2. Center for Radiation-Hardened Microelectronics 3. Corporate Requirements Management 4. corrective repair maintenance 5. count rate meter**



**CRO—cathode-ray oscilloscope**

**CRP—Community Relations Plan**

**CRRES—combined release and radiation effects satellite**

**CRS—Conference Room Scheduling (for the Internal Web)**

**CRT—1. corporate requirements tracking  
2. cathode ray tube 3. coolant return tank**

**CRTF—central receiver test facility**

**CRWM—civilian radioactive waste management**

**Crypto—communications security keying material**

**CRZ—contamination reduction zone**

**cs or cS—centistoke**

**c/s—cycle(s) per second (use Hz instead)**

**Cs—cesium (chemical symbol)**

**CS—1. can select 2. compound-semiconductor  
3. communications satellite 4. core support**

**C-S—customer-supplier**

**C/S—containment and surveillance**

**C3S—command, control, and communications system**

**C4S—Center for Command, Control and Communications Systems**

**CSA—1. Canadian Standards Association  
2. canned subassembly 3. compliance schedule agreement (or approval)  
4. Command Support Area**

**CSAC—1. Computer Security Advisory Committee 2. Customer Satisfaction Assessment Committee**

**CSAMT—controlled-source audio-frequency magnetotelluric**

**CSAP—customer satisfaction assessment project**

**Csat—customer satisfaction**

**csc—cosecant**

**CSC—1. Central Security Control  
2. computer software component  
3. computer systems coordinator**

**csch—hyperbolic cosecant**

**CSCI—computer software configuration (or component) item**

**CSCS—cost and schedule control systems**

**C/S CSC—cost and schedule control systems criteria**

**CSD—control and status display**

**CSDP—Continental Scientific Drilling Program**

**CSEL—combat survivor/evader locator**

**CSF—College of Santa Fe**

**CSFA—College of Santa Fe/Albuquerque**

**CSG—combinatorial solid geometry**

**CSI—critical success indicator**

**CSIL—critical and sensitive information list**

**CSIS—Center for Strategic and International Studies**

**CSIU—coded switch interface unit**

**CSL—contractor standards laboratory**

**CSM—1. computer security manager  
2. core support module 3. customer service manager**

**CSMA/CD—carrier sense with multiple access with collision detection**

**CSNI—Committee on Safeguards of Nuclear Installations**

**CSOC—Consolidated Space Operations Center**

**CSP—1. chopped silica phenolic 2. control switching point 3. certified safety professional**

**CSPD—career services for persons with disabilities**

**CSR—1. current situation room  
2. computer security representative  
3. customer service request 4. customer service representative**

**CSRL—1. common strategic rotary launcher  
2. Compound Semiconductor Research Laboratory**

**CSRS—coherent Stokes-Raman spectroscopy**

**CSS—1. coded switch set (or system)  
2. component support structure 3. US designator for Chinese surface-to-surface missile**

**CSSA—Crop Science Society of America**

**CSSC—coded switch set controller**

**CSSM—computer security site manager**

**CSSO—computer systems security officer**

**CST—crystalline silicotitanate**

**CSU—1. customer service unit 2. computer support unit**

**CSW—channel status word**

**CSWS—Command Support Weapon System**

**CT—1. cryoresistive transmission  
2. current transformer 3. counter terrorism  
4. computed tomography (microscopy)**

**CTA—Central Training Academy**

**CTAC—Community Training and Assistance Center (Boston)**

**CTAQ—Center for Transportation and Air Quality**

**CTB—comprehensive test ban**

**CTBN—carboxy terminated polybutadiene acrylonitrile**

**CTBT—Comprehensive Test Ban Treaty**

**CTC—centralized traffic control**

**CTCA—communicated threat capability assessment**

**CTD—1. corporate training and development  
2. charge transfer device  
3. cumulative trauma disorder**

**CTE—1. component test equipment  
2. coefficient of thermal expansion**

**CTF—1. Central Technical File 2. Coyote Test Field**

**CTFC—Coyote Test Field Complex**

**ctg—cotangent (see cot)**

**CTG—control technique guidelines**

**CTH—a three-dimensional shockwave physics code developed at SNL**

**CTL—combat training launch**

**CTM—collimation test module**

**CTMS—carrier transmission maintenance system**

**CTOC—Command Tactical Operations Center**

**CTP—Comprehensive Test Plan**

**CTR—1. controlled thermonuclear reactor  
2. contractor 3 center 4. critical temperature ratio**

**CTS—1. cable termination shelter  
2. carpal tunnel syndrome**

**CTSS—CRAY time-sharing system**

**CTTF—Countermine Test Track Facility**

**CTU—1. compatibility test unit  
2. calibrator test unit**

**CTW—clean tactical weapon**

**CTZ—Corps Tactical Zone**

**cu—cubic**

**CUBE—computer use by engineers**

**CUBIT—solid model file representation of a component or product that automatically generates a mesh for subsequent finite element analysis**

**CUCV—commercial utility cargo vehicle**

**CUSP—Center for Ultraclean Semiconductor Processing**

**CUSR—custodial unit status report**

**CUSUM—cumulative summation**

**CV—1. CryptoVariable 2. contingency value**

**CVC—1. conserved vector current  
2. chemical vapor composites**

**CVCS—chemical volume and control system**

**CVD—1. chemical vapor deposition  
2. copper vapor deposition**

**CVP—countermeasures verification program**

**CVR—1. Center for Verification Research  
2. current viewing resistor**

**CVS—composition variability study**

**CVT—1. current-viewing transformer  
2. continuously variable transmission**

**cw or CW—1. continuous wave  
2. clockwise**

**CW—1. chemical warfare 2. chemical weapon  
3. conventional weapon  
4. confined workspace 5. clean water**

**CWA—1. Communication Workers of America 2. Clean Water Act**

**CWDR—chemical waste disposal request**

**CWE—conventional weapons effects**

**CWGM—cooling water gamma monitor**

**CWL—chemical waste landfill**

**CWMP—Chemical Waste Management Plan**

**CWR—continuous welded rail**

**CWS—contaminated water storage**

**cwt—hundredweight**

**CWW—compressed workweek**

**CX—categorical exclusion**

**CY—calendar year**

**CYBL—cylindrical boiling**

**CYLTRAN**—an electron/photon transport code

**CZMA**—Coastal Zone Management Act

## **D**

**d-**—deci- (a prefix indicating 10<sup>-1</sup>)

**d**—1. density 2. day 3. deuteron or deutron

**D**—1. debye (unit of electric dipole moment that equals 10<sup>-18</sup> Franklin cm)  
2. deuterium 3. dee (in a cyclotron)  
4. diopter (optics) 5. darcy (unit of permeability; see mD) 6. drawing (standards)  
7. destructive (tests)

**da**—dry air

**DA**—1. Department of the Army 2. double amplitude 3. Design Agency

**D/A**—digital to analog

**DAASY**—data acquisition and analysis system

**DAB**—data acquisition box

**DAC**—1. data acquisition and control (SCCS)  
2. digital-to-analog converter  
3. derived air concentration 4. Defense (Nuclear Agency) auxiliary closure  
5. Disabilities Awareness Committee

**DACCC**—Dispersed Aircraft Cell Control Center

**DADS**—data acquisition and display system

**DAF**—Device Assembly Facility

**DAGS**—data-gathering system

**DAM**—1. device adapter module 2. data acquisition module

**DAMA**—demand activated manufacturing architecture

**DAO**—Dayton Area Office (DOE)

**DAP**—diallylphthalate

**DA/PA**—Design Agency/Production Agency

**DARCOM**—1. Development and Readiness Command (Army) 2. Development and Research Command

**DARHT**—dual-axis radiograph hydrotest

**DARPA**—Defense Advanced Research Projects Agency (obsolete; now the Advanced Research Projects Agency)

**DAS**—data acquisition system

**DASA**—Defense Atomic Support Agency (obsolete; now Defense Nuclear Agency)

**DASC**—Direct Air Support Center

**DASD**—direct-access storage device (computers)

**DASMA**—Deputy Assistant Secretary for Military Application (DOE)

**DASO**—demonstration and shakedown operations

**DAT**—1. diversity (awareness) action team  
2. digital audio tape

**DAU**—data authentication unit

**DAVID**—digital automatic video intrusion detection

**dB**—decibel

**DB**—depth bomb

**dba**—A-weighted decibel

**DBA**—1. database administrator 2. doing business as (usual) 3. design basis accident

**DBF**—design basis fire

**dbi**—decibels for an isotropic source

**dBm**—decibel to 1 mW

**DBMS**—database management system

**DBR**—distributed Bragg reflectors

**DBS**—debris barrier system

**dB SPL**—decibel sound pressure level

**dc**—direct current

**DC**—1. data concentrator (computers) 2. direct charges 3. direct chill

**D&C**—drilling and completion

**DCA**—1. Defense Cooperation Agreement 2. dual-capable aircraft 3. Defense Communications Agency

**dc/ac**—direct current/alternating current

**DCC**—dialog corporate connection (a library retrieval system)

**DCER**—design criteria engineering release

**DCF**—dose conversion factor

**DCG**—Derived Concentration Guide

**DCH**—direct containment heating

**DCI**—Director of Central Intelligence

**DCN**—document change notice

**DCO**—detonator circuit ohmmeter

**DCP**—device control program

**DCPC**—dielectric compound parabolic concentrator

**DCPG**—defense communications planning group

**DCR**—1. data communication request 2. design change request

**DCS**—1. Document Control Station 2. drawing (or document) control system 3. defense com-munications system 4. Deputy Chief of Staff

**DCSA**—dependent care spending account

**DCSC**—Desktop Computer Support Center

**DCSRDA**—Deputy Chief of Staff, Research Development and Acquisition (Army)

**DCT**—discrete cosine transform

**DCTL**—direct-coupled transistor logic

**DCU**—data control unit

**DCVW**—direct current voltage withstanding

**DCWV**—direct-current working volts

**DD**—double density

**D/D**—disablement/denial

**D&D**—decontamination and demolition

**DDA**—digital differential analyzer

**DDR**—decontamination, decommissioning, demolition, and restoration

**DDE**—dynamic data exchange

**DDESB**—DoD Explosives Safety Board

**DDI**—Decisions and Designs, Inc.

**DDN**—defense data network

**DDO—Deputy Director of Operations**

**DDS—1. detailed design specification  
2. direct digital synthesizer**

**DDSA—dual-dual stronglink assembly**

**DDT—1. design demonstration testing  
2. deflagration-to-detonation transition  
3. Dichloro-diphenyl/trichloroethane**

**DDTA—derivative differential thermal analysis**

**DE—disablement equipment**

**DEA—Drug Enforcement Agency**

**DEAR—DOE Acquisition Regulation**

**DEB—depolarizer electrolyte binder**

**DEC—Digital Equipment Corporation**

**deca—a prefix denoting 10 (a variant of deca is deka)**

**DECANAL—decision analyses (computers)**

**DECnet—Digital Equipment Corporation Network (computers)**

**decon—decontamination**

**DECtalk—a speech synthesizer**

**DECUS—Digital Equipment Corporation User Society**

**DEF—data exchange format**

**DEFCON—defense readiness condition**

**DEFORM—fuel deformation calculation (computers)**

**deg—degrees (use the symbol with numbers: 32°C)**

**DEGS—diethyl glycol succinate (explosive)**

**DELPHI—discriminating electrons with laser photon ionization**

**DELSOL—"of the sun (span)" (computers)**

**DEMO—demonstration plant analysis (computers)**

**DEMP—dispersed electromagnetic pulse**

**DEP—1. Dental Expense Plan  
2. diversified equity portfolio**

**der or deriv—derivative**

**DER—1. development engineering release 2. designated engineering representative**

**DES—data encryption standard**

**det—1. detonator 2. determinant**

**dev—deviation**

**DEW—direct energy weapons**

**df—degree of freedom (also DOF)**

**DF—1. deuterium fluoride 2. direction finder**

**DFD—1. demolition firing device 2. data flow diagram**

**2-DFFT—two-dimensional fast Fourier transform**

**DFM—design for manufacturing (obsolete; now DPR: design for product realization)**

**DFP—defensive fighting position**

**DFT—discrete Fourier transform**

**DFTP—detailed flight test plan**

**DFWM—degenerate four-wave mixing**

**dg—decigram**

**DG—design guide**

**DG/DAC—data general/data acquisition and control (a subsystem of AIDS)**

**DGE—1. DADS graphic environment  
2. Division of Geothermal Energy (DOE)**

**DGP—data-gathering panel**

**DGSWS—Director General of Strategic Weapon System**

**DGZ—designated (or desired) ground zero**

**DHE or DHX—dump heat exchanger**

**DHFR—dihydrofolate reductase**

**DHLW—defense high-level waste**

**DHM—dexterous hand master**

**dHvA—de Haas van Alphen (effect)**

**D&I—disassembly and inspection**

**dia or diam—diameter**

**DIA—Defense Intelligence Agency**

**DIAL—differential absorption LIDAR**

**DICE—defensive information to counter espionage**

**DID—1. direct inward dialing 2. dynamic identification 3. defense in depth 4. data item description 5. display interface device**

**DIFA—digital impedance for Faradaic analysis**

**DII—defense industry initiative**

**DIIC—dielectric insulated integrated circuit**

**dim—dimension**

**DIP—dual in-line package**

**DIS—1. Defense Investigative Service 2. design information summary 3. disable**

**DISA—Defense Information Systems Agency**

**DISC—direct-injected stratified charge**

**DISIDS—display and information distribution system**

**dis/s—disintegrations per second**

**DIU—data interface unit**

**div—1. divergence 2. division**

**DJTA—development joint test assembly**

**dl—dead load**

**dL—deciliter**

**DL—door lock**

**DLC—1. Diversity Leadership Committee  
2. data link control**

**DLCF—data link control field**

**DLPI—discrete line PAL interface**

**DLR—American translation: German research establishment for Aeronautics and Astronautics**

**DLWG—damage limitation working group (obsolete; see CEWG)**

**dm—decimeter**

**DM—department manager**

**DMA—1. Division of Military Application (now Assistant Secretary for Defense Programs: ASDP) 2. Defense Mapping Agency 3. direct memory access 4. Director of Military Affiliations 5. diagnosis of multiple alarm (system)**

**DMC—digital microcircuit**

**DMF—Data Management Facility**

**DMM—1. design methodology manager: a tool for defining and using process flows through a graphical user interface  
2. digital multimeter**

**DMP—discrepancy microprocessor**

**DMR—database management routine**

**DMS—data (or document) management system**

**DMSP—1. Defense Meteorological Satellite Program 2. Defense Meteorological Support Program**

**DMTS—distinguished member of technical staff**

**DMZ—demilitarized zone**

**DNA—Defense Nuclear Agency**

**DNA/FC—Defense Nuclear Agency/Field Command**

**DNB—departure from nucleate boiling**

**DNFSB—Defense Nuclear Facilities Safety Board**

**DNI—dinitroimidazole**

**DNSI—defense nuclear surety inspection**

**DNO—do not operate**

**DNT—dinitrotoluene (explosive)**

**DNTS—distributed network terminal server**

**DOB—1. depth of burst 2. dispersed operating base**

**DOBIS—Dortmunder Bibliothers Systems (Library program to retrieve references)  
obsolete: replaced by Horizon**

**DOC—Department of Commerce**

**DOCUSAR—document storage and retrieval**

**DoD—Department of Defense**

**DOD—depth of discharge**

**DoDD—Department of Defense Directive**

**DOE—Department of Energy**

**DOE/AAO—Department of Energy/ Amarillo Area Office**

**DOE/AL—Department of Energy/ Albuquerque**

**DOE/ALO—Department of Energy/ Albuquerque Operations Office**

**DOE/AN—Department of Energy/Arms (Control and) Nonproliferation**

**DOECN—Department of Energy/ Communications Network**

**DOE/ER—Department of Energy/ Energy Research**

**DOE/ESC—Department of Energy/ Electrical Safety Committee**

**DOE/FE—Department of Energy/Fossil Energy**

**DOE/ID—Department of Energy/Idaho (Field Office)**

**DOE/KAO—Department of Energy/ Kirtland Area Office**

**DOELAP—Department of Energy/ Laboratory Accreditation Program**



**DOE/MA—Department of Energy/ Military Applications**

**DOENTS—Department of Energy, National Telecommunications Systems**

**DOE/NV—Department of Energy/Nevada Operations Office**

**DOE/OSS—Department of Energy/Office of Safeguards and Security**

**DOE/RFAO—Department of Energy/ Rocky Flats Area Office**

**DOE/SRO—Department of Energy/ Savannah River Operations Office**

**DOE/WPD—Department of Energy/ Weapons Program Division**

**DOF—degree of freedom (also df)**

**DOI—1. direct optical initiation  
2. Department of the Interior**

**DOIT—develop on-site innovative technologies**

**DOJ—Department of Justice**

**DOL—1. Department of Labor 2. disperse operating location**

**DON—Russian acronym for doppler microwave area sensors**

**DOP—1. detailed operating procedure  
2. dioctyl/phthlate**

**DOS—1. Department of State 2. disk operating system**

**DOT—Department of Transportation**

**DOVAP—Doppler velocity and position**

**DOW—Dow Chemical Company, (Golden Colorado)**

**dP—differential pressure**

**D&P—development and production**

**DP—1. dew point 2. defense program (or plan) 3. data processing 4. disposal procedure**

**DPA—diversion path analysis**

**DPAC—Disability Placement and Accessibility Committee**

**DPC—Direct Program Committee**

**DPCM—differential pulse-code modulation**

**DPCTP—Defense Programs Critical Technology Plan**

**dpdt—double-pole, double-throw (electrical switches)**

**DPM—1. dual-purpose missile 2. data processing machine 3. documents per minute**

**DPQ—data quality objective**

**DPR—design for product realization**

**DPS—1. data processing set 2. Direct procurement services**

**DPSK—diferential-phase-shift keying**

**dpst—double-pole, single-throw (electrical switches)**

**DPTRA—defense programs transportation risk assessment**

**DQC—director quality coordinator**

**DQO—data quality objective**

**DR—1. disability retirement  
2. development report 3. design reconstitution**

**DRA—detailed risk analysis**

**DRAAG—design review and acceptance group**

**DRAM**—1. dynamic response of articulated machinery 2. dynamic random access memory

**DRC**—1. data-retention chassis  
2. Disciplinary Review Committee

**DRCF**—dose-rate conversion factor

**DRD**—deep-rock disposal

**DRE**—destruction and removal efficiency

**DRM**—depositional remanent magnetization

**DRP**—deliverable reimbursable product

**DRTF**—Distributed Receiver Test Facility

**DRU**—dynamic reference unit

**DS**—1. development specification 2. direct support 3. development schedule 4. door switch 5. data system 6. doublesided 7. department supervisor

**DSA**—1. dual stronglink assembly 2. direct support activity

**DSAC**—deterministic severe accident criteria

**DSARC**—Defense System Acquisition Review Council (obsolete; use Joint Requirements and Management Board)

**DSAT**—anti-satellite defense

**DSB**—1. Defense Science Board 2. double sideband (modulation)

**DSC**—1. differential scanning calorimetry  
2. direct satellite communication

**DSCA**—differential strain curve analysis

**DSCS**—defense satellite communications system

**DSD**—data security device

**DSDP**—deep-sea drilling project

**DSE**—distributed system environment

**DSG**—downhole steam generator

**DSGS**—direct support/general support

**DSI**—Decision Sciences Institute

**DSID**—disposable seismic intrusion detector

**DSK**—disk

**DSL**—direct-strike lightning

**DSLA**—dual stronglink assembly

**DSM**—data stream multiplexer

**DSN**—defense switched network

**DSP**—1. doctoral study program 2. defense support program 3. digital signal process (or processor)

**DSRD**—data systems research and development

**DSS**—1. decision support systems  
2. double shell slurry 3. designated seismic station

**DSSF**—double-shell slurry feed

**DSSL**—detonator safing stronglink

**DST**—double-shell tank

**DSTO**—Defense Science and Technology Organization (Australia)

**DSV**—defense suppression vehicle

**DSVS**—deployable seismic verification system

**DSW**—Director of Special Weapons

**DSX**—digital signal crossconnect

**DT—1. diffraction tomography  
2. dedicated target**

**D-T—deuterium-tritium**

**DTA—1. differential thermal analysis  
2. dynamic testing agency 3. designated travel agency**

**DTC—desktop casting**

**DT2C3—Director of Theater and Tactical Command, Control, and Communications (Office of the Secretary of Defense)**

**DTD—1. document type definition 2. data transfer (or transport) device**

**DTDB—digital terrain database**

**DTE—data terminal equipment**

**DTED—digital terrain elevation data**

**STEM—digital terrain elevation map(s)**

**DTER—drawing transfer engineering release**

**DTIC—Defense Technical Information Center**

**DTL—1. diode transistor logic  
2. decontamination team leader**

**DTMF—dual-tone modulated frequency**

**DT/OT—development test/operation test**

**DTP—1. desktop publishing 2. diversified telephone portfolio**

**DTR—delivery to reclamation**

**DTR90—taut wire sensor (one wire)**

**DTR2000—taut wire sensor (two parallel wires)**

**DTRG—dry tuned motor gyroscope**

**DTU—data transfer (or transformation) unit**

**DTUC—data transfer unit cartridge**

**DTV—device transport vehicle**

**DTVB—digital television backup**

**DTVE—digital television element**

**DTWI—DOE transuranic waste integration**

**DU—1. distribution unit 2. depleted uranium  
3. Dobson unit (used in measuring ozone)**

**DUU—deliberate unauthorized use**

**DUVAS—derivative ultraviolet absorption spectroscopy**

**DV—data are valid**

**D&V—demonstration and validation**

**DVA—direct viscosification agent**

**DVM—digital voltmeter**

**DVP—deferred vested pension**

**DVPS—digital voice processing system**

**DW—1. dry well 2. development warhead**

**DWCS—digital wireless control system**

**dwg—drawing**

**DWI—driving while intoxicated (or impaired)**

**DWMP—Defense Waste Management Plan**

**DWPF—Defense Waste Processing Facility**

**DWS—digital weapon simulator**

**DWTM—(Office of) Defense Waste and Transportation Management (DOE)**

**DWV—dielectric withstanding voltage**

**DWVA—differential waveform analysis**

**DXT—depth times thickness**

**Dy—dysprosium (chemical symbol)**

**DYMAC—dynamic material control**

**dyn—dyne (a unit of force in the centimeter-gram-second system; use newtons instead)**

## **E**

**E- —exa- (a prefix)**

**E—1. environmental (test) 2. electrical (hazard)**

**EA—1. environmental assessment  
2. emergency action 3. employee awards 4. endangerment assessment**

**EAC—Energy Advisory Committee**

**EACI—Environmental Air Control, Inc.**

**EACLOC—electron-alkali (Atom) close coupling (computers)**

**EACT—emergency action and coordination team**

**EADAS—engineering and administrative data acquisition system**

**EAG—extended absence greeting**

**EAM—1. emergency action message  
2. em-bedded atom method**

**EAP—1. Employee Assistance Program  
2. Educational Assistance Program 3. emergency-action procedures**

**EAPRO—Employee Assistance Program Referral Option**

**EAR—1. environmental assessment report  
2. Export Administration Regulation**

**EAROM—electrically alterable read-only memory**

**EAS—employee accounting system**

**EASI—estimate of adversary sequence interruption**

**EB—1. exploding bridge 2. Electrolyte binder**

**EBAM—electron-beam addressable memory**

**EBC—Employee Benefits Committee**

**EBCDIC—extended binary-coded decimal-interchange code (computers)**

**EBCE—electron-beams control electronics**

**EBFA—electron-beam fusion accelerator**

**EBIC—electron-beam-induced current**

**EBIS—electron-beam ion source**

**EBM—electron-beam machining**

**EBR—1. electron-beam recording  
2. experimental breeder reactor**

**EBRC—Equipment Budget Review Committee**

**EBW—exploding bridgewire**

**EBWR—experimental boiling-water reactor**

**EC—1. environmental chamber  
2. European Community 3. exceptional contributor**

**ECA—electronic (or electrical) component assembly**

**ECAD—electronic computer-aided design**

**ECAP—European Conflict Analysis Project**

**ECB—electronic code book**

**ECC—1. emergency cardiac care  
2. emergency core coolant(or cooling)**

**ECCD—electrical compatibility control drawing**

**ECCI—1. electronic commerce of component information 2. emergency core coolant (or cooling) injection**

**ECCM—electronic counter-countermeasures**

**ECCN—export commodity control number**

**ECCS—emergency core-cooling system**

**ECD—electron capture detector (explosives)**

**ECF—1. Entry Control Facility  
2. extracellular fluid 3. Explosives Components Facility**

**E&CF—events and causal factors**

**ECL—1. emitter-coupled logic  
2. Execution Control Language  
3. environmental checklist**

**ECL/ADM—environmental checklist/action description memorandum**

**ECLO—emitter-coupled logic operator**

**ECM—1. electronic countermeasure  
2. electrochemical machining  
3. environmentally conscious manufacturing**

**ECMC—enhanced crisis management capability**

**eco—electron-coupled oscillator**

**ECO—export controlled operations**

**ECOTRAC—ecology tracking**

**ECP—1. engineering change proposal  
2. Employee Contribution Plan 3. entry control point**

**ECR—1. engineering change request  
2. electron cyclotron resonance  
3. emergency conference room**

**ECS—1. environmental control system  
2. emergency cooling system  
3. emergency control station**

**ECSW—extended channel status word**

**ECT—evaporator condensate tank**

**ECTL—emitter-coupled transistor logic**

**ECTU—electrical compatibility test unit**

**ECU—environmental control (or conditioning) unit**

**ECUT—energy conversion and utilization technologies**

**ECW—effluent cooling water**

**ED—1. engineering and development 2. explosive destruction 3. emergency destruction  
4. external device (computers)**

**E&D—environmental and degrading (or destructive)**

**EDAC—Earth Data Analysis Center (UNM)**

**EDAX—energy defensive analysis with x-rays**

**EDB—1. energy (science and technology) database 2. ethylene dibromide**

**EDC—Employee Development Center**

**EDD—enforcement decision document**

**EDE—effective dose equivalent**

**EDF—Environmental Defense Fund**

**EDG—emergency diesel generator**

**EDLN—edge and line (weights)**

**EDM—1. electron discharge machine (or machining) 2. electrical discharge machining (or machine)**

**EDMA—electronic design and manufacturing automation**

**EDNA—externally driven nuclear assembly**

**EDOC—error detection or correction**

**EDP—electronic data processing**

**EDPE—electronic data-processing equipment**

**EDPM—electronic data-processing machine**

**EDPS—electronic data-processing system**

**EDR—electric dispersion reactor**

**EDRE—emergency deployment readiness evaluation**

**EDRS—environmental data reporting system**

**EDS—1. energy dispersive spectroscopy  
2. emergency disablement system  
3. electronic disk storage 4. explosives detection system 5. earth data system  
6. event dataset**

**EDU—error detection unit**

**EDW—environmental development warhead**

**EDX—exoatmospheric discrimination experiment**

**EE—1. engineering evaluation 2. electrical engineer 3. external evaluation**

**E&E—energy and environment**

**EEC—European economic community**

**EE/CA—engineering evaluation and cost analysis**

**EED—1. end event data 2. electro-explosive device**

**EEFI—essential elements of friendly information**

**EEG—electroencephalograph**

**EEM—essential equipment monitor**

**EEO—Equal Employment Opportunity**

**EEO/AA—Equal Employment Opportunity/Affirmative Action**

**EEOC—Equal Employment Opportunity Commission**

**EEPROM—electrically erasable programmable read-only memory (see EPROM)**

**EER—1. engineering evaluation reactor  
2. engineering evaluation release**

**EERC—Energy and Environment Research Center**

**EEROM—electrically erasable read-only memory**

**EERU—environmental emergency response unit**

**EES—electric energy systems**

**EEV—employee expense voucher**

**ef—E-field (fence)**

**EFC—electronic filmless camera**

**EFCOG—energy facilities contractors operating group**

**eff—efficiency**

**EFF—electric field fence**

**EFI—exploding foil initiator**

**EFMS—electronic forms management system**

**EFP—explosively formed projectiles**

**EFT—1. electronic fund transfer  
2. electronic file transfer**

**EFTS—electronic funds transfer system**

**e.g.—exempli gratia (for example)**

**EG—emergency generator**

**EGA—enhanced graphic adapter**

**EG&G—Edgerton, Germeshausen and Grier,  
Inc. (DOE Contractor)**

**EGR—energy gamma rays**

**EGS—engineering graphics system**

**EH—environment and health**

**EHD—electrohydrodynamics**

**EHEMP—enhanced, high-altitude electro-  
magnetic pulse**

**EHF—extremely high frequency (UHF is  
preferred)**

**EHS—extremely hazardous substance**

**EHV—extremely high voltage (UHV is  
preferred)**

**EHVL—enhanced hypervelocity launcher**

**EIA—1. Electronic Industries Association  
2. economic impact assessment 3. Energy  
Information Administration (DOE)**

**EIC—environmental Information Center**

**EIF—Enterprise Integration Facility**

**EIG—electronic installation group**

**EIIS—energy intelligence information system**

**EIN—employer identification number**

**EIS—1. environmental impact statement  
2. engineering information system  
3. export in-formation system**

**EIVR—exchange of information by visits and  
reports (in US/UK defense agreements)**

**EIVS—experimental inventory verification  
system**

**EKG—electrocardiograph (or  
electrocardiogram)**

**EL—1. erector launcher 2. environment  
laboratory**

**ELC—erector-launcher car**

**ELF or elf—extremely low frequency**

**ELI—early litigation qualification**

**ELINT—1. electromagnetic intelligence  
2. electronic intelligence**

**ELKE—elevated kinetic-energy (weapon)**

**ELS—1. enhanced line security  
2. explosive light source**

**ELTECH—Electrotechnical University of St.  
Petersburgh**

**EM—1. electromagnetic 2. Energy Measure-  
ments, Inc. (subsidiary of EG&G) 3. environ-  
mental monitoring (or management)**

**EMAT—electromagnetic acoustic transducer**

**EMC—electromagnetic compatibility**

**EMCC—1. Electromagnetic Code Consortium  
2. Emergency Management Coordination  
Committee**

**EMEA—electronic mail enabled application**

**EMES—electromagnetic environment  
simulator**

**EMF or emf—1. electromagnetic force (or  
field) 2. electromotive force**

**EMFG—explosive magnetic flux generator**

**EMG—explosive Marx generator**

**EMI—electromagnetic interference**

**EMINS—emergency management information  
system**

**EMIS—emergency management information  
system (sometimes abbreviated as EMINS)**

**EML—1. electromagnetic launcher  
2. equipment maintenance log**

**EMMS—electromagnetic measurements  
system**

**EM&NR—energy, minerals, and natural  
resources**

**EMP—1. electromagnetic pulse  
2. enrichment monitor processor  
3. electron microprobe 4. environmental  
monitoring program**

**EMR—electromagnetic radiation**

**EMS—1. emergency management system  
2. emergency medical service**

**EMSL—Environmental Monitoring Systems  
Laboratory**

**EMT—1. emergency medical technician  
2. executive management team**

**emu or EMU—electromagnetic unit**

**EMX—electromagnetic X**

**ENDF—evaluated nuclear data file**

**ENDS—1. enduring NUDET detection system  
2. enhanced nuclear detonation safety**

**ENET—Ethernet**

**ENG—electronic newsgathering**

**ENNE—enterprise network excellence**

**ENNK—endoatmospheric nonnuclear kill**

**ENR—energy neutrons**

**ENS—emergency notification system**

**ENSCE—enemy situation correlation element**

**ENV—environmental**

**EnviroTRADE—environmental technologies  
for remedial actions data exchange**

**e/o—enrichment percent**

**EO—1. equal opportunity  
2. environmental operations 3. executive order**

**EOA—end of address**

**EOC—1. Emergency Operations Center  
2. Environmental Operations Center**

**EOD—1. explosive ordnance disposal  
2. erasable optical disk**

**EOF—end of file**

**EOL—end of life**

**EOM—1. end of message 2. end of month**

**EON—external open network**

**EOP—experimental operating procedure**



**EOR—enhanced oil recovery**

**EOS—1. equation of state 2. earth observation system 3. equal opportunity specialist**

**EOSAT—earth observation satellite**

**EOSC—electro-optics subcouncil**

**EOS/ESD—electrical overstress/ electrostatic discharge**

**EOSP—electrooptic signal processor**

**EP—1. earth penetrator 2. engineering procedure 3. environment protection 4. Electronic parts 5. exceptional performance**

**EPA—1. Environmental Protection Agency 2. electrical penetration assembly 3. Equal Pay Act**

**EPAC—1. Educational Programs Activity Committee 2. East Pacific**

**EPC—early Pentagon capability**

**EPCA—Energy Policy and Conservation Act**

**EPD—engineering production document**

**EPI—1. electronic position indicator 2. engineering process improvement**

**EPIC—El Paso International Center (Fort Bliss, Texas)**

**EPICURE—experimental physics interactive controls user resource enhancement**

**EPLD—erasable programmable logic devices**

**EPMS—enhanced property management system**

**EPOCH—electron propagation on channels**

**EP&P—electronic publishing and printing**

**EPR—1. ethylene-propylene rubber 2. electron paramagnetic resonance 3. experimental power reactor 4. employee placement report 5. employee personnel; record**

**EPRI—Electric Power Research Institute**

**EPRO or epro—end product**

**EPROM—erasable (or electrically) programmable read-only memory (see EEPROM)**

**EPSF—encapsulated postscript format**

**EPW—earth-penetrating weapon**

**EPZ—emergency planning zone**

**Eq—equation (used only before a number); plural is Eqs**

**EQ—equipment qualification**

**EQFD—enhanced quality function deployment**

**EQIP—equipment qualification inspection program**

**EQRC—Electronics Quality Reliability Center**

**equiv—1. equivalent 2. also equivalency**

**ER—1. engineering release 2. environmental restoration 3. energy research 4. enhanced radiation 5. energy ratio**

**ERA—1. electron ring accelerator 2. Economic Regulatory Administration (DOE) 3. ERDA research abstract 4. expedited response action**

**ERAB—Energy Research Advisory Board**

**ERAD—explosive release atmospheric dispersion**

**ERADCOM—Electronics Research and Development Command (Army)**

**ERB—1. Energy Resources Board  
2. exclusion region barrier**

**ERC—Engineering Research Center**

**ERCS—emergency response cleanup services**

**ERD—emergency response director**

**ER&D—exploratory research and development**

**ERDA—Energy Research and Development Administration (previously AEC and now DOE)**

**ER&E—Exxon Research and Engineering**

**erf—error function**

**erfc—error function (complement of)**

**ergs—erg-second (obsolete; use joules)**

**ERIM—Environmental Research Institute of Michigan**

**ERIS—exoatmospheric reentry intercept system**

**ERISA—Employee Retirement Income Security Act**

**ERL—emergency reference level**

**ERNS—emergency response notification system**

**EROM—erasable read-only memory**

**ERP—1. equipment requirement program  
2. effective radiated power 3. emergency response procedure**

**ERPG—emergency response planning guideline**

**ERPO—Environmental Restoration Project Office (DOE)**

**ERS—equipment requirements schedule**

**ERST—environmental restoration site tracking**

**ERT—1. emergency response team  
2. environmental response team**

**ERU—equipment replaceable unit**

**ERV—emergency relief valve**

**ER&WM or ER/WM—environmental restoration and waste management**

**ES—expert system**

**E&S—error and sensitivity**

**ESA—1. engineering science assistant  
2. electronic safety and arming  
3. Endangered Species Act**

**ESAAB—Energy Systems Acquisitions Advisory Board**

**ESAD—1. electronic safing, arming, and detonation 2. electronic safing and arming device**

**ESAF—electronic safe arm fire**

**ESAISA—explosive safety internal self-assessment**

**ESAISA—European Safeguards and Research Development Association**

**ESARDA—European Safeguards and Research Development Association**

**ESAT—environmental services assistant team**

**ESC—1. Electrical Safety Committee  
2. electrostatic chuck**

**ESCA—electron spectroscopy for chemical analyses**

**ESCS—emergency satellite communications system**

**e.s.d.—estimated standard deviation**

**ESD—1. environmental sensing device  
2. electrostatic discharge 3. electron-simulated desorption 4. emergency shutdown device**

**ESF—1. Exploratory Studies Facility  
2. exploratory shaft facilities  
3. engineered safety features**

**ESFAS—engineered safety features actuation system**

**ES&H—environment, safety, and health**

**ESHAC—Environmental Safety and Health Advisory Committee**

**ESI—1. extremely sensitive information  
2. equivalent series inductance  
3. expanded site investigation 4. effluent species identification**

**ESIE—extended SATKA integrated experiment**

**ESIU—ejector-store interface unit**

**ESM—environmental sensor (or status) monitor**

**ESNA—European Society of Nuclear Methods in Agriculture**

**ESOP—Employee Stock Ownership Plan**

**ESP—electrostatic precipitator**

**ESQD—explosive safety quantity distance**

**ESR—1. electron spin resonance 2. early storage reserve 3. electroslog remelting 4. equivalent series resistance**

**ESS—1. engineering safeguards system  
2. electronic switching system  
3. engagement simulation system  
4. essential 5. environmental stress screening**

**ESSA—electronically switched spherical array**

**ESSG—environmental-sensing signal generator**

**E&ST—employment and suitability test**

**ESTSC—Energy Science and Technology Software Center (Oak Ridge, TN)**

**ESTS—electronic systems test set**

**esu—electrostatic unit**

**ESU—energy storage unit**

**ESW—emergency service water**

**ET—1. European (Warning) Terminal 2. event tree**

**ETA—estimated time of arrival**

**et al.—et alii (and others)**

**ETAS—elevated target acquisition system**

**etc.—et cetera (and so forth)**

**ETC—electrothermal/chemical**

**E/TE—experiment/test engineers**

**ETF—1. Experimental Test Facility  
2. Engine Test Facility**

**ETHZ—translation: Swiss Federal Technical University in Zurich**

**ETI—early transient incapacitation**

**ETIS—elapsed-time indicator system**

**ETL/ISG—engineer topographic laboratories/intelligent system group**

**ETR**—electrothermal response

**ETS**—1. energy transfer system  
2. electronic translator system

**ETU**—1. early training unit  
2. environmental test unit

**ETV**—educational television

**eu**—entropy unit

**e.u.**—electron unit

**EUCOM**—European Command (US)

**EUDED**—Army Corps of Engineers,  
European Division

**EUNIE**—European nuclear interface unit

**EUQS**—environmental unique signal

**EURATOM**—European Atomic Energy  
Community

**EUVL**—extreme ultraviolet lithography

**eV**—electron volt

**EV**—1. electric vehicle 2. electronic viewing

**EVE**—1. exemplary volunteer effort  
2. Enterprise-information viewing  
environment 3. electronic viewing  
environment

**EVM**—electronic voltmeter (formerly called  
**VTVM**: vacuum tube voltmeter; used now to  
refer to equipment)

**EVP**—executive vice president

**EW**—1. European Warning 2. electronic  
warfare

**EW0**—1. electronics warfare officer  
2. Emergency War Order

**EWP**—Emergency War Plan

**EWS**—early warning system

**EWT**—emitter wrapthrough

**EX**—exemption request

**EXCOMS**—executive communications system

**exp**—1. exponent 2. exponential

**expt**—experiment

**EXR**—energy x-rays

**EZU**—extended zone unit

## **F**

**f**—femto (a prefix indicating 10<sup>-15</sup>)

**f/16**—aperture ratio 16

**°F**—degrees Fahrenheit

**F**—1. farad (electric capacitance) 2. fermi  
(length equal to 10<sup>-15</sup> meter) 3. fluorine  
(chemical symbol) 4. fuze

**fa**—femtoampere

**FA**—1. field artillery 2. forward area  
3. failure analysis 4. funds advance

**FAA**—1. Federal Aviation Administration  
2. functional area appraisal

**FAASV**—field artillery ammunition supply  
vehicle

**FAATC**—Federal Aviation Administration  
Technical Center (Atlantic City, NJ)

**FAC**—1. fast-acting closure 2. facility

**FACE**—findable accurate, comprehensive, and effective

**FACET**—a computer program for model smoothing

**FACOM**—Field Artillery Command

**FACP**—fire alarm control panel

**FACR**—facts, analysis, conclusions, and recommendations

**FACS**—future armored combat system

**FACT**—1. fully automatic compiler-translator  
2. Facility for Calibration and Test (Coyote Canyon)  
3. Federation of Automated Coding Technologies

**FAD**—fuzing and arming device

**FADE**—focus, analyze, develop, and execute

**FADS**—force administration data system

**FAE**—fuel air explosive

**FA&F**—fuzing, arming, and firing

**FAID**—1. fuel assembly identification  
2. fuel assembly integrity devices

**FAIS**—Foreign Affairs Information System

**FAIT**—facilities asbestos implementation team (see FAMT)

**FALCON**—fission-activated laser concept

**FAM**—facility assessment methodology

**FAMT**—facilities asbestos management team (see FAIT)

**FAN-E**—Flaming Arrow Network, Europe

**FAO**—Federal Agency Order

**FAR**—1. false-alarm rate 2. fly-away round  
3. federal acquisition regulation 4. federal aviation regulation

**FARR**—failsafe and risk-reduction (study)

**FAS**—Federation of American Scientists

**FAST**—1. Fourier amplitude sensitivity test 2. future artillery systems technology  
3. facilities accelerated system teams

**FASTCAST**—delivers investment cast hardware

**FAT**—factory acceptance test

**FATE**—fuzing, arming, testing, and evaluation

**fax or FAX**—facsimile message

**FBA**—force-balance accelerometer

**FBC**—fluidized bed combustion

**FBI**—Federal Bureau of Investigation

**FBIA**—force-balance integrating accelerometer

**FBIS**—Foreign Broadcast Information System

**FBM**—fleet ballistic missile

**FBR**—fast breeder reactor

**fc**—1. flow chart 2. footcandle

**FC**—1. full contributor 2. fluorocarbon

**FCA**—functional configuration audit

**fcc**—face-centered cubic

**FCC**—1. Federal Communications Commission 2. Facilities Command Center (SNL)

**FCCSET**—Federal Coordinating Council for Science, Engineering, and Technology

**FCDC**—flexible confined detonating card

**FC/DNA**—Field Command/Defense Nuclear Agency

**FCI**—1. Fluid Controls Institute 2. fuel-coolant interaction

**FCL**—fault current limiter

**FCO**—final change order

**FCP**—1. fuel cycle program (or plant)  
2. Field Command Post 3. forward control point 4. fluid coupled plate 5. flight computer program

**FCR**—facilities customer representative

**FCS**—fire control system

**FCSM**—field command stockpile management

**fcst**—forecast

**FCTI**—fuel coolant thermal interaction

**FDA**—1. Food and Drug Administration  
2. fuel distribution analyzer

**FDB**—field distribution box

**FDD**—facility design document

**FDDI**—fiber distributed data interface

**fdm**—frequency-division multiplexing (or multiplexer)

**FDM**—fixed detection mode

**FDR**—final development report

**FDS**—fence disturbance sensor

**Fe**—iron (chemical symbol)

**FE**—1. ferroelectric 2. fossil energy  
3. facility engineer 4. Facilities Express  
5. finite element

**FEA**—finite element analysis

**FEB**—functional electronic block

**FEBA**—forward edge of battle area

**FECOM**—Far East Command

**fed**—1. federal 2. federated 3. federation

**FEDS**—forced entry deterrent system

**FEMA**—Federal Emergency Management Agency

**FEMP**—Fernald Environmental Management Project

**FEMTRAN**—radionuclide transport model

**FENCER**—NATO code for Soviet bomber

**FEP**—front-end processor (computers)

**FEPCA**—Federal Environmental Pollution Control Act (1972)

**FERC**—Federal Energy Regulatory Commission (DOE)

**FERF**—Fusion Engineering Reactor Facility

**FES**—flight environment sensor

**FESEM**—forcible entry safeguards effectiveness model

**FESOP**—Facilities Engineering Standard Operating Procedures

**FESS**—front-end security system

**FET**—1. ferroelectric transistor 2. field-effect transistor (switch)

**FEWS**—follow-on early warning system

**FFA—1. federal facilities agreement  
2. freefall airburst**

**FFBD—functional flow back diagram**

**FFCA—federal facilities compliance agreement**

**FFE—failed fuel element**

**FFG—free fall groundburst**

**FFM—failed fuel mockup**

**FFP—firm fixed price**

**FFRDC—Federally Funded Research and Development Center**

**FFS—fast-flag sensor**

**FFT—fast Fourier transform**

**FFTF—Fast Flux Test Facility**

**FGD—flue gas desulfurization**

**FGIS—facilities geographic information system**

**FHAR—fire hazard analysis report**

**FHSA—Federal Hazardous Substances Act (1966)**

**FHWA—Federal Highway Administration**

**FI—Ferrovie Italiane**

**FIBITE—fault isolation built-in test**

**FIC—1. Financial Information Center  
2. frequency interference control**

**FICI—failed instrument component inspection**

**FID—flame ionization detector**

**FIDO—financial download (tool)**

**FIDS—facility intrusion detection system**

**FIDU or fidu—fiducial**

**FIESTA—field safety technical assistance**

**FIFA—fissions per initial fissile atom**

**FIFO—first-in, first-out (for inventory; also used in the computer field as a method of retrieving items)**

**FIFRA—Federal Insecticides, Fungicide, and Rodenticide Act**

**Fig.—figure (avoid abbreviation; best to spell out)**

**FIG—fast ion gauge**

**FIJ—facts, inference, and judgment**

**FIMA—fissions per initial metal atom**

**FIMS—facilities information management system**

**FIPS—federal information processing standards**

**FIR—1. far-infrared (laser) 2. finite impulse response**

**FIRL—Franklin Institute Research Laboratory**

**FIS—1. financial information system  
2. fluoroimmuno sensor**

**FISUG—FIS user group**

**FIT—field investigation team**

**FITS—1. fully instrumented test site  
2. focus information technology showcase**

**FKE—fracturable keying elements**

**fl—fluid**

**ftL**—foot lambert (sometimes written ftL)

**FLAWLES**—flight analysis by a weighted least-squares (technique)

**FLC**—1. Federal Laboratory Consortium  
2. Federal Laboratory Commission

**FLEA**—flux logic element array

**FLECHT**—full-length emergency core heat transfer

**FLIR**—forward-looking infrared

**FLMPR**—forward-looking, material-penetrating radar

**FLOSIM**—flow simulation (computers)

**FLOT**—forward line of own troops

**FLSA**—Fair Labor Standards Act

**FLSC**—flexible linear-shaped charge

**FLTSATCOM**—Fleet Satellite Communications

**fm**—femtometer (also used as fermi)

**FM**—1. frequency modulation  
2. Ferromagnetic 3. fully meets  
4. function manager 5. field manual  
6. factory mutual

**F-map**—feature mapping

**FMCS**—Federal Mediation and Conciliation Service

**FMD**—fuel motion detection

**FMDF**—fixed-mirror distributed focus

**FMEA**—Failure Mode and Effects Analysis

**FMEF**—fuels and materials examination facility

**FMHR**—field material-handling robot

**FMLA**—Family Medical Leave Act

**FMS**—1. forms management system  
2. financial management service  
3. flexible manufacturing system  
4. foreign military sales

**FMSC**—fixed-mirror solar concentrator

**fnp**—fusion point (nuclear technology)

**FNSI**—finding of no significant impact (sometimes written as FONSI)

**FO**—fiber optics

**FOB**—free on board

**FOC**—full (or final) operational capability

**FOCI**—foreign ownership, control, or influence

**FODOCS**—feasibility of disposal of contaminated soil

**FOG**—future options group (SNL)

**FOGM or FOG-M**—fiber-optic guided missile

**FOIA**—Freedom of Information Act

**FOLLS**—fiber-optic liquid level sensor

**FONSI**—finding of no significant impact (more commonly written as FNSI)

**FOR**—field of regard

**FORSCOM**—Forces Command (Army)

**FORTTRAN**—formula translator (or translation) (computers)

**FOS**—fiber optic sensor



**FOSDIC**—film optical scanning device for input to computers

**FOT**—follow-on operational test

**FOTL**—follow-on to Lance

**FOV**—field of view

**fp**—freezing point

**FP**—1. facility personnel 2. fission product

**FPA**—1. floating point accelerator  
2. Federal Preparedness Agency

**FPD**—flame photometric detector

**FPDR**—first production drawing release

**FPFF**—full power, full frequency

**FPGA**—field programmable gate array

**FPMR**—Federal Property Management Regulation

**FPP**—1. financial preprocessor 2. floating point processor

**fps**—1. frame per second 2. feet per second; also ft/s

**FPS**—fence protection system

**FPU**—first production unit

**FQR**—field quality representative

**FR**—1. France 2. Federal Register

**FRA**—Federal Railroad Administration

**FRAM**—ferroelectric random-access memory

**FRAS**—fission gas release and swelling (computers)

**FRB**—fast rise-time breakdown

**FR/CP**—functional representatives and counterparts

**FRD**—formerly restricted data

**FREADM**—fast reactor excursion and accident dynamics model (computers)

**FREC**—fuel-ringed external cavity

**FRED**—faceted region editor

**freq**—frequency

**FRERP**—Federal Radiological Emergency Response Plan

**FRG**—Federal Republic of Germany

**FRMAC**—Federal Radiological Monitoring and Assessment Center

**FROG**—free rocket over ground

**FROKA**—First Republic of Korea Army

**FRP**—fire-resistant pit

**fs**—femtosecond

**FS**—1. firing set 2. fuming sulphuric (smoke agent) 3. feasibility study

**F&S**—Fenix & Scission, Inc.

**FSA**—1. fuel sphere assembly 2. firing system assembly 3. forward staging area 4. forward support assembly

**FSAC**—Facilities Safety Appraisal Committee

**FSAR**—Final Safety Analysis Report

**FSC**—Federal Supply Classification

**FSCC**—File Support Coordination Center

**FSD**—full-scale development

**FSE**—fire-support element

**FSG—Federal Supply Group**

**FSK—frequency-shift keying (see PSK)**

**FSL—1. Flight-Simulator Laboratory  
2. formal semantics language (computers) 3.  
field storage location**

**FSM—1. fail-safe memory 2. financial  
systems migration**

**FSMB—financial system management board**

**FSN—1. federal stock number 2. Foreign  
Service National**

**FSO—facility security officer**

**FSP—foreign service post**

**FSPS—free-standing plasma-sprayed**

**FSR—functional security requirement**

**FSRB—fuze safety review board**

**FSS—federal supply schedule**

**FSSG—Force Service Support Group**

**FSU—Former Soviet Union**

**ft—foot or feet**

**FT—1. frame transfer 2. Fourier transform**

**FTE—full-time equivalent (or employee)**

**FTF—Falcon Test Facility**

**FTIR—Fourier transform infrared  
(spectroscopy)**

**FTIS—financial transaction interface system**

**ftL—see fL**

**ft-lbf—pound force per foot**

**FTM—flight test missile**

**ft/min—feet per minute**

**ft<sup>3</sup>/min—cubic feet per minute (preferred over  
liters per second: L/s)**

**FTOS—flight-termination ordnance system**

**FTP—file transfer protocol**

**ft-pdl—foot poundal**

**FTPA—Field Task Proposal Agreement; see  
WPAS**

**FTPS—financial transaction processing  
system**

**FTQ—flight test qualification**

**FTR—fast test reactor in FFTF**

**FTS—Federal Telecommunications System**

**ft/s—feet per second; also fps**

**ft<sup>3</sup>/s—cubic feet per second**

**FTSC—fault tolerance spaceborne computer**

**FTU—flight test unit**

**FU—Finsen unit (electromagnetics)**

**FUFO—full fuzing option**

**FUSRAP—Formerly Utilized Sites Remedial  
Action Program**

**fV—femtovolt**

**FVC—filtered vented containment**

**FW—1. feed water 2. filter wheel**

**FWA—flow weighted average**

**FW/BCR—feed withdrawal/building control  
room**

**FWCA—Fish and Wildlife Coordination (1958)**

**FWCC—fine-weave carbon-carbon**

**fwd—forward**

**FWDC—Foster Wheeler Development Corporation**

**FWDR—Final Weapon Development Report**

**FWHM—full width, half maximum**

**FWP—field work proposal**

**FWPCA—Federal Water Pollution Control Act (obsolete; now Clean Water Act)**

**FWPF—fine-weave pierced fabric**

**FY—fiscal year**

**FYDP—Five-Year Defense Program**

**FYI—for your information**

**FYPP—Five-Year Program Plan**

**FZ—flow zone**

## **G**

**g—gram (sometimes gm, but g is preferred)**

**g or G—acceleration due to gravity**

**G—1. gain 2. giga- (a prefix indicating 10<sup>9</sup>)**

**ga or GA—gauge**

**GA—1. gun assembled 2. genetic algorithms**

**G&A—general and administrative**

**GaA—gallium arsenide**

**GaAlAs—gallium-aluminum arsenide**

**GACC—ground attack control capability**

**GADRAS—gamma detector response and analysis software**

**GAF—German Air Force (Luftwaffe)**

**G/AIT—ground/airborne integrated terminal**

**gal—gallon**

**gal/min—gallons per minute**

**GAMA—generation and maintenance area**

**GAO—General Accounting Office**

**GAPP—global atmospheric research program**

**GAS—global antenna system**

**GAT—Goodyear Atomic Corporation**

**GATERS—ground-to-air telerobotic system**

**GAWR—graphic arts work request (obsolete; now referred to as service order request: SOR)**

**GBARC—Great Britain Aeronautical Research Council**

**GBEE—Governor's Business Executives for Education**

**GBI—1. ground-based interceptor  
2. graduate business internship**

**GBR-X—ground-based radar experiment**

**Gbyte—gigabyte**

**GC—gas chromatograph**

**G&C—guidance and control**

**GCD—greater confinement disposal**

**GCEP**—gas centrifuge enrichment plant

**GCFBR**—gas-cooled fast breeder reactor

**GC/FPD**—gas chromatograph/flame photometric detector

**GCM**—global circulation model

**GC/MS**—gas chromatographic mass spectrometer

**GCN**—ground communications network

**GCRP**—global change research program

**Gc/s**—gigacycles per second (obsolete; use GHz)

**GCS**—general communications system

**GD/C**—General Dynamics/Convair (obsolete; now Lockheed)

**GDC**—general design criteria

**GDE**—geologic disposal evaluation

**GDH**—global data handler

**GDO**—geothermal drilling organization

**GDP**—GNT data processor

**GDS**—general declassification schedule

**GDT**—ground data terminal

**GE**—General Electric (Company)

**GE-BRD**—General Electric, Breeder Reactor Division

**GEM**—1. generator, electronic marker  
2. graduate in engineering for minorities (summer program)

**GENDD**—General Electric Neutron Device Department (now the Pinellas Plant)

**GENSER**—general service

**GEONDS**—Ground EMP Optical NUDET (nuclear detonation) System

**GEOTEMP**—geological temperature (computers)

**GEP**—1. ground entry point 2. graduate education program

**GESMO**—generic environmental statement on mixed oxide

**GESS**—generator exhaust signature suppressor

**GETS**—group emergency telephone system

**GeV**—gigaelectron volt

**GFCI**—ground fault circuit interrupter

**GFE**—government-furnished equipment

**GFI**—ground fault interrupter

**Gflops/s**—floating point operations per second

**GFP**—Government-Furnished Property (property assigned to commercial and educational institution subcontractors)

**GFS**—government-furnished software

**Gg**—gigagram

**GG**—GNT gateway

**G&G**—geophysical and geodetic

**GHA**—ground hazard area

**GHP**—geothermal heat pump

**GHQ**—General Headquarters

**Ghz**—gigahertz

**Gi**—gilbert

**GIDEP**—government-industry data exchange program

**GIE**—ground interface electronics

**GIF**—1. Gamma Irradiation Facility  
2. guaranteed interest fund

**GIGO**—garbage in, garbage out (computers)

**GIP**—geotechnical instrumentation package

**GIS**—1. gas-insulated substation  
2. geographic (or global) information system (SNL)

**GISC**—generic intelligent system controller

**GISP**—geotechnically instrumented seafloor probe

**GISSP**—geotechnical in situ strength probe

**GJPO**—Grand Junction Projects Office (DOE)

**GL**—general linear

**GLCM**—ground-launched cruise missile

**GLONASS**—Global Navigation Satellite System (Soviet Union)

**GLT**—glycine-L-tyrosine (a typical drug molecule)

**gm**—gram (it is preferable to use g)

**g/m<sup>3</sup>**—grams per meter cubed

**GM**—1. General Motors 2. geometry modeling

**G-M**—Geiger-Mueller counter

**GMB**—glass microballoon

**GMC**—guided missile cruiser (nuclear)

**GMCP**—ground maintenance computer program

**GMT**—Greenwich mean time

**gmv**—gram-molecular volume

**GNR**—general nuclear release (or response)

**GNS**—global navigation system

**GNT**—ground NUDET terminal

**GO**—government obligations

**GOCO**—government-owned, contractor-operated (DOE)

**GOES**—geostationary operational environmental satellite

**GOP**—general output

**GOSIP**—Government Open Systems Interconnect Profile

**GOSSAT**—Group on Soviet Science and Technology

**GOX**—gaseous oxygen

**GP**—general purpose

**GPa**—gigapascal

**GPA**—grade point average

**GPBTO**—general-purpose, barbed-tape obstacle (concertina)

**GPC**—1. gas permeation chromatography  
2. giant piston core

**GPE**—general plant equipment (see GPP)

**GPIB**—general purpose instrumentation bus

**gpm**—gallons per minute

**GPMPP**—groundwater protection management protection plan

**GPO**—Government Printing Office

**GPP**—1. General Plant Project 2. general-purpose plant (equipment) (see GPE)

**GPR**—ground-penetrating radar

**GPS**—1. global positioning system  
2. global positioning satellite 3. gas purification system 4. groundwater protection strategy

**gr**—1. grain 2. gross

**GRADIN**—gradient inverse

**GRASER**—gamma-ray laser

**GRASS**—gas release and swelling subroutine (computers)

**GRI**—Gas Research Institute

**GRINSH**—graded index separate-confinement heterostructure

**GRIS**—gamma-ray imaging system (or spectrometer)

**GRO**—gamma-ray observatory

**grp**—ground reference point

**GRS**—1. global receiver system 2. general records schedule 3. Geoscience and Remote Sensing (Journal)

**GRU**—translation: Soviet Intelligence Directorate of the General Staff

**GS**—geological survey

**GSA**—General Services Administration (Agency of the Federal Government)

**GSAC**—gas-sealing auxiliary closure

**GSE**—1. ground support equipment  
2. group of scientific experts

**GSF**—Geoelectric Simulation Facility

**GSFC**—Goddard Space Flight Center

**GSL**—general scattered light (version of SPIRITS)

**GS/MS**—gas chromatography/mass spectrometry

**GSSE**—ground system support engineer

**G/T**—(ratio of) gain (noise) to temperature

**GTA**—gas tungsten arc

**GTCC**—greater than Class C

**gtd.**—guaranteed

**GTDA**—general (license) technical data and annotation

**GTE**—General Telegraph and Electric (Company)

**GTM**—1. ground test missile 2. gang temperature monitor

**GTPP**—gas transfer pilot project

**GTR**—Government Travel Requisition

**GTS**—1. guidance test set 2. ground test missile 3. gas transfer system

**GTSN**—global telemetered seismographic (or seismic) network

**GTU**—ground test unit

**GTUF**—G-tunnel Underground Facility

**GUI**—graphics (or graphical) user interface

**GUIDAR**—guided intrusion detection and ranging

**GUILD**—government, university, industry, and laboratory development

**GV**—ganged valve

**GVI**—graphic users interface

**G/VLLD**—ground/vehicular laser locator designator

**GVLS**—global verification locating system

**GVR**—gas volume ratio

**GVWR**—gross vehicle weight rating

**gw**—ground water; also groundwater

**GW**—gigawatt

**GWEN**—ground wave emergency network

**GWOA**—guerilla warfare operational area

**GWS**—general war system

**Gy**—gray (unit of radiation dosage)

**GZ**—ground zero (nuclear detonation)

## **H**

**h-** —hecto- (a prefix indicating  $10^2$ )

**h**—hour (also hr)

**H**—1. henry (electric inductance)  
2. horizontal 3. hazardous (materials, substances, and wastes)

**ha**—hectare

**HAA**—heterogeneous aerosol agglomeration (computers)

**HABE**—high altitude balloon experiment

**HAC**—heliostat array control

**HACV**—heavy armored combat vehicle

**HAD**—hazard assessment document

**HAF**—high-altitude fuze

**HAI**—hazard assessment information (HAI form is obsolete)

**HAMOC**—hammer analysis method of characteristics (computers)

**HAP**—hazard analysis process

**HARC**—helicopter accident-resistant container

**HARP**—1. hazards assessment of rocket propellants (terminated in 1989) 2. high altitude research project

**HAS**—hardened aircraft shelter (see PAS)

**HASP**—health and safety plan

**HATS**—hazard abatement tracking system

**hav**—haversine

**HAW**—hypersonic aerodynamic weapons

**HAWT**—horizontal-axis wind turbine

**HAZ**—heat-affected zone

**HAZCOM**—hazard communication rule

**HAZMAT** (or **HazMat**)—hazardous material

**HAZOP**—hazard and operability

**HAZWOPER**—hazardous waste operations and emergency response

**HAZWRAP**—hazardous waste remedial action program

**HBCU—Historically Black  
Colleges/Universities**

**HBV—Hepatitis B virus**

**HC—1. hexachloroethane (screening smoke)  
2. honeycomb 3. hazard class  
4. hydrocarbon**

**HCA—high contamination area**

**HCC—1. Headquarters Communications  
Center 2. Headquarters Command Center  
(SNL)**

**HCDA—hypothetical core disruptive accident**

**HCE—health consultation evaluation**

**HCF—Hot Cell Facility**

**HCFC—hydrogenated chlorofluorocarbon**

**HCl—hydrochloric acid**

**HCM—high-current mode**

**hcp—hexagonal close packed**

**HCP—hearing conservation program**

**HCSA—health care spending account**

**HD—high density**

**HDC—Headquarters Data Center**

**HDL—Harry Diamond Laboratories (Adelphi,  
MD)**

**HDP—high delta pressure**

**HDR—hot dry run**

**HDS—hydrodesulfurization**

**HDTV—high-definition television**

**HDW—Hanford defense waste**

**HDX—half-duplex (circuits)**

**HE—1. high explosive 2. human error**

**HEAF—High Explosive Application Facility**

**HEART—hardened electronics and radiation  
technology**

**HECTR—hydrogen event containment  
transient response**

**HED—high energy density**

**HEDI—high endoatmospheric defense  
interceptor**

**HEDL—Hanford Engineering Development  
Laboratory (Washington)**

**HEED—high energy electron diffraction**

**HEEF—a boundary element solution**

**HEGF—high energy gas fracturing**

**HEL—Human Engineering Laboratory**

**HELIA—high energy line induction  
accelerator**

**HELIOS—computer analytic code in heliostat  
technology**

**HELP—high energy laser program**

**HEM—homogeneous equilibrium model  
(computers)**

**HEMP—high altitude electromagnetic pulse**

**HEP—human error probability**

**HEPA—high efficiency particulate air (or  
aerosol) (filter)**

**HERC—heavy equipment remote control**

**HERL—Health Effects Research Laboratory**



**HERMES**—high energy radiation megavolt electron source (HERMES III is the world's most powerful, single-shot x-ray source)

**HERO**—hazards of electromagnetic radiation to ordnance

**HETT**—high explosive transit time

**HEU**—highly enriched uranium

**HEW**—health, education, and welfare

**hex**—1. hexagonal 2. Hexadecimal

**HF**—1. high frequency 2. hydrogen fluoride

**HFA**—human factors analysis

**HFC**—fluorinated hydrocarbon

**hfd**—high frequency direction finder

**HFIR**—high flux isotope reactor

**hfs**—hyperfine structure

**HFS**—Human Factors Society

**HFSE**—high frequency seismic element

**Hg**—mercury (chemical element)

**H-gear**—handling gear

**HGU**—hand geometry unit

**HGV**—hypersonic glide vehicle

**HHC**—high heat capacity

**HHFCDP**—high heat flux component development program

**HIACA**—high intensity, adjustable cobalt array

**HIDS**—highly integrated detonation system

**HIP**—1. hazard identification process  
2. howitzer improvement program

**HIPO**—high (incident) potential

**HIPORS**—high power radiation source

**hi-pot**—high potential

**HIPPI**—high performance parallel interface

**HIRA**—hazard identification and risk assessment

**HIRAC**—hazards identification, recording, and correction (system) (Sandia/CA)

**HIRCIS**—high resolution capacitive imaging sensor

**HIS**—Honeywell information system

**HISAC**—high speed airdrop container (system)

**HITAF**—high temperature advanced furnace (DOE)

**HIT-SAR**—Highway Transportation—Safety Analysis Report

**HITEC**—Hispanic (and American Indian) Technical Education Center

**HIV**—human immunodeficiency virus

**HJ**—Honest John (missile)

**HK**—Hefner candle (optics)

**HLFM**—high level flux monitor

**HLG**—High Level Group (NATO Nuclear Issues Group)

**HLGPT**—high level general-process trash

**HLLW**—high level liquid waste

**HLOC—Hispanic Leadership and Outreach Committee**

**HLOS—horizontal line of sight**

**HLW—high level waste**

**HM—1. hazardous material 2. health monitoring**

**HMC—1. hybrid microcircuit 2. HazMat (On-Scene) Commander**

**HMEA—hazard mode and effect analysis**

**HML—hard mobile launcher**

**HMMWV—high mobility multipurpose wheeled vehicle**

**HMO—Health Maintenance Organization**

**HMPE—high modulus polyethylene**

**HMS—hazardous materials storage**

**HMT—1. hazardous materials transportation 2. hazardous materials table**

**HMTA—Hazardous Materials Transportation Act**

**HMX—high melting explosive**

**H&N—Holmes and Narver, Inc.**

**HNAB—hexanitroazobenzene (explosive)**

**HNL—Holified National Laboratory**

**HNS—hexanitrostilbene (explosive)**

**Ho—holmium (chemical symbol)**

**HOB—height of burst**

**HOC—halogenated organic compound**

**HOE—homing overlay experiment**

**HOFS—hybrid optical firing set**

**HOIS—hostile intelligence service**

**HOM—homology**

**HOMOT—hands on/minds on technology (see MANOS)**

**HOP—high oxygen pressure**

**HOPE—hypothetical overpower excursion (computers)**

**Horizon—automated client-server library system that replaces DOBIS. Horizon serves as the library's on-line catalog.**

**HOTPIM—hydrodynamics or two-phase internal mixture (computers)**

**hp—horsepower**

**HP—1. health physics (or physicist) 2. Hewlett-Packard 3. high pressure 4. high performance**

**HPAR—health physics anomaly reporting**

**HPCC—high performance computing and communication**

**HPD—1. Health Protection Division (DOE) 2. hearing protection device**

**HPFL—High Performance Fuel Laboratory**

**HPI—hazard potential index**

**HPLC—high performance liquid chromatography**

**HPM—high power microwave**

**HPOF—high pressure oil-filled**

**HPPP—high pressure pump pad**

**HPRF—high power radio frequency**

**HPRS—high pressure recirculation system**

**HPSS—high performance storage system**

**HPT—high potential tester**

**H, P, T, & E—hand, power, thermal, and explosives (attack tools)**

**HQ—headquarters**

**HQDA—Headquarters, Department of the Army**

**HQSAC—Headquarters Strategic Air Command**

**hr or h—hour**

**HR—1. human resources 2. heavy replica**

**HRA—1. health risk appraisal 2. high radiation area**

**HR/AR—high reflectance/antireflectance**

**HPOF—high pressure oil-filled**

**HRCQ—highway route controlled quantity**

**HRD—1. human resources development  
2. heavy replica decay**

**HRIS—human resources information system**

**HRM—1. health risk management  
2. Hoisting and Rigging Manual (DOE)**

**HRS—1. heat rejection system 2. hazard ranking system**

**HRTEM—high resolution transmission electron microscopy**

**HS—hydrogen sulfide**

**HSB—Human Studies Board (SNL)  
(frequently called Institutional Review Board)**

**HSE—Health, Safety, and Environment Division (DOE)**

**HSL—hue, saturation, lightness**

**H&SM—Health and Safety Manual (DOE)**

**HSMCDR—high speed multichannel data recorder**

**HSP—Health and Safety Plan**

**HSR—helical screw rheometer**

**HSS—hazard separation system**

**HSST—house science, space, and technology**

**HSTF—Heated Screen Test Facility**

**HSWA—Hazardous and Solid Waste Amendment**

**ht—height**

**HT—1. high temperature 2. tritium**

**HTA—high temperature alarm**

**HTC—heat transfer coefficient**

**HTGC—high temperature gas cleanup**

**HTGR—high temperature, gas-cooled reactor**

**HTIR—high temperature insulation resistance**

**HTK—hard to kill**

**HTLD—High Technology Light Division (Ft. Lewis)**

**HTML—A set of language codes that enable documents to use hypertext, images, sound, and video.**

**HTO—1. tritium water 2. tritium oxides**

**HTRB—high temperature reverse bias**

**HTS**—1. high temperature superconductor  
2. hyperchannel terminal server

**HTTT**—high temperature turbine technology

**HUD**—Department of Housing and Urban Development (US)

**HUMINT**—human intelligence

**hv or HV**—high voltage

**HVA**—high velocity accelerator

**HVAC**—heating, venting, and cooling

**HVB**—high voltage breakdown

**HVL**—hypervelocity launcher

**HVP**—hypervelocity projectile

**HVPS**—high voltage power supply

**HVR**—high voltage ratio

**HVTS**—head and video transmission subsystem

**H/W**—hazardous waste

**HWC**—hardware component

**HWCI**—hardware configuration team

**HWG**—hydrodynamic group

**HWMF**—Hazardous Waste Management Facility

**HWR**—heavy water reactor

**HWS**—Hartmann wavefront sensing

**HWT**—hypersonic wind tunnel

**HX**—heat exchanger

**HYDAC**—1. hybrid dynamic (material) control 2. hybrid digital-to-analog converter

**Hz**—hertz (unit of frequency; also known as cycles per second)

**Hz/s**—hertz (or cycles) per second

## **I**

**I**—integrity (one of the five corporate values; see L, Q, R, and T)

**IA**—1. implosion assembled 2. interface adapter 3. independent assessment 4. incident action 5. instrument air

**IABTI**—International Association of Bomb Technicians and Investigators

**IAC**—image analysis chip

**IACMAG**—International Association for Computer Methods and Advances in Geomechanics

**IACRO**—interagency cost reimbursement order

**IACS**—International Annealed Copper Standard

**IACSE**—Interagency Advisory Committee on Security Equipment

**IADS**—igloo access denial system (This system has evolved into the weapon access delay system: WADS.)

**IAEA**—International Atomic Energy Agency (Vienna, Austria)

**IAEP**—International Assessment of Educational Progress

**IAG**—interagency agreement

**IAI—1. Israel Aircraft Industries 2. International Association for Identification**

**IAM—International Association of Machinists (SNL/CA)**

**IANUS—integrated analysis of nuclear systems (computers)**

**IAS—1. Institute of Aerospace Sciences  
2. item accounting system**

**IASTED—International Association of Science and Technology for Development**

**IATA—International Air Traffic Association**

**IAW—in accordance with**

**IBEST—ion beam surface treatment**

**ibid.—ibidem (in the same place)**

**IBM—1. intermediate-range ballistic missile (see IRBM) 2. International Business Machines, Inc.**

**IC—1. integrated circuit (or chip)  
2. inductance capacitance 3. intracloud  
4. integrated con-tractor 5. internal combustion 6. Incident Commander  
7. isolation condenser**

**I/C—injector/combustor**

**I&C—instrumentation and control**

**ICA—item-controlled area**

**ICAO—International Civil Aviation Organization**

**ICADS—integrated correlation and display system**

**ICB—1. interconnecting box 2. interface control board**

**ICBM—intercontinental ballistic missile**

**ICCB—interconnecting cable and control box**

**ICCD—intensified charge-coupled device**

**ICCTT—International Consultative Committee for Telephone and Telegraph**

**ICD—interface control document (or drawing)**

**ICE—1. internal combustion engine  
2. intelligence computing environment  
3. interactive concurrent engineering  
4. interactive collaborative environment 5. In-circuit emulator**

**ICECO—Implicit Continuous Eulerian Containment Code (computers)**

**ICECO-H—ICECO hydrodynamic**

**ICECO-HT—ICECO heat transfer**

**ICEPEL—ICECO piping and elbow (analysis)**

**ICF—1. insurance continuance fund  
2. inertial confinement fusion**

**ICFAX—integrated circuit failure analysis expert (system)**

**ICFM—in-core fuel management**

**ICM—interim corrective measure**

**ICMG—intelligence community modeling group**

**ICN—interim change notice**

**ICO/FAO—integrated contractor order and federal agency order**

**ICP-MS—inductively coupled plasma mass spectrometry**

**ICPN—integrated combat procedures (nuclear)**

**ICPP—Idaho Chemical Processing Plant**

**ICRU—international commission on radiological units (and measurements)**

**ICRP—International Council on Radiation Protection**

**ICS—1. intermittent control system  
2. Intelligence Center School (Army)  
3. integrated contractor system  
4. inventory control system 5. incident command system**

**ICT—1. International Critical Tables  
2. inter-case transfer 3. interface control team**

**ICU—1. interconnecting unit 2. interface control unit 3. integrated control unit**

**ICV—1. inner containment vessel  
2. intimate container vault**

**icw—interrupted continuous wave (e.g., Morse code)**

**ID—1. inside diameter 2. identification  
3. image dissector 4. integrate demonstration (site) 5. Idaho Operations Office (DOE)**

**IDA—1. intrusion detection alarm  
2. Institute for Defense Analysis**

**IDAS—integrated data acquisition system**

**IDB—integrated database**

**IDD—integrated data denial (decryption)**

**IDE—1. intrusion detection equipment  
2. inter-active development environment**

**IDEA—integrated development environment and assistance (or assistant)**

**IDL—1. interactive data language 2. inter-disciplinary laboratory**

**IDLH—imminent danger to life or health**

**IDMM—integrating digital multimeter (computerized measurement)**

**IDO—internal distribution only**

**IDP—1. integrated data processing  
2. intrusion detection process**

**IDS—1. integrated diagram system  
2. information display system 3. intrusion detection system**

**IDSN—integrated digital services network**

**IDST—intrusion detection system technology**

**IDU—interface demonstration unit**

**i.e.—id est (that is)**

**IE—1. inspection and enforcement  
2. industrial engineering**

**I&E—inspection and evaluation (protects DOE assets)**

**IEA—International Energy Agency**

**IEC—International Electrochemical Commission**

**IECE—intersociety energy conversion engineering**

**IED—1. individual effectiveness development  
2. improvised explosive device**

**IED/PEP—individual effectiveness development and performance enrichment program**

**IEDS—improvised explosive device sterilizer**

**IEEE—Institute of Electrical and Electronics Engineers, Inc.**

**IEG—independent evaluation group**

**IEIT—integrated engineering information technology**

**IEMATS—improved emergency message automatic transmission system**

**IEMP—internal electromagnetic pulse**

**IER—1. information engineering release  
2. internal engineering release**

**IES—illuminating Engineering Society**

**IESCS—internal (or integrated)/external security and C2 systems**

**if or IF—intermediate frequency**

**IFA—ionization front accelerator**

**IFC—in-flight control**

**IFD—in-flight-disconnect (connector)**

**IFE—in-flight extraction**

**IFF—identification, friend or foe**

**IFI—1. in-flight insertion 2. inspector follow-up item**

**IFM—1. interface memorandum  
2. interfacial force microscope**

**IFR—ion-focused regime**

**IFRF—International Flame Research Foundation**

**IFRL—International Flame Research Foundation**

**IFRS—intelligent facial recognition system**

**IFS—integrated file system**

**IFSAR—interferometric synthetic aperture radar**

**IFV—infantry fighting vehicle**

**IG—1. inertia guard (sensor)  
2. interconnecting group 3. Inspector General**

**IGB—inner-German border**

**IGES—1. initial graphic exchange standard 2. initial graphics exchange specification 3. interactive graphics exchange system**

**IGFM—internal gamma flux monitor**

**IGR—impulse graphite reactor**

**IGS—1. interior guard station 2. IONDS global segment**

**IGUA—International Guards Union of America (obsolete; now Independent Security Police Association)**

**IGZ—indicated ground zero**

**IH—1. industrial hygiene 2. inert head  
3. inner housing**

**IHD—in-house dissertation**

**IHE—insensitive high explosive (see CHE)**

**IHEM—In-house Energy Management (WIPP)**

**IHG—in-house general (software)**

**IHP—in-house preparation**

**IHS—1. isotopic heat source 2. in-house special (software)**

**IHTS—intermediate heat transport system**

**IHX—intermediate heat exchanger**

**IIE—Institute of International Education**

**IIF—interest income fund**

**IIR—1. interim IEMATS replacement  
2. Infinite (length) impulse responses**

**IIS**—interagency information study

**ILAB**—inter-laboratory advisory board

**ILC**—Individualized Learning Center

**ILF**—infra-low frequency

**ILH**—imploding linear hohlraum

**ILLW**—intermediate-level liquid waste

**ILRT**—integrated leak rate test

**ILS**—integrated logistics support

**ILSP**—integrated logistics support plan

**ILT**—inter-line transfer

**ILW**—intermediate-level liquid waste

**Im**—imaginary

**IMDI**—integrated manufacturing design initiative

**IMETS**—integrated meteorological system

**IMF**—1. Improved Message Facility  
2. Integrated Maintenance Facility  
3. Intermediate Maintenance Facility

**IMFWG**—interagency metal forming working group

**IMO**—International Maritime Organization

**IMOG**—1. interagency manufacturing operations group 2. interagency mechanical operations group

**IMP**—1. intelligent mobile platform  
2. integrated mission processing

**IM-PMT**—information management/ process management team

**IMPRESSARIO**—integrated multiple platform for remote-sensing simulation and real-time interactive operation

**IMR**—integrated management requirement

**IMRL**—Integrated Materials Research Laboratory

**IMS**—1. intrusion monitoring system  
2. ion mobility spectrometer (or spectrometry)  
3. image management system 4. information management system

**IMTL**—Integrated Manufacturing Technologies Laboratory

**IMU**—inertial measurement unit

**in.**—inch or inches

**In**—indium (chemical symbol)

**IN**—intelligence

**I/N**—inspection and maintenance

**INAIGAP**—indium aluminum gallium phosphide

**INC**—insertable nuclear component

**IND**—improvised nuclear device

**INE**—inertial navigation element (or equipment)

**INEL/CAMAS**—Idaho National Engineering Laboratory/Central Alarm Monitoring and Assessment System

**INEPT**—insensitive nucleus enhancement by polarization

**INEWS**—integrated electronic warfare system

**inf**—inferior

**INF**—intermediate-range nuclear force



**INMM—Institute of Nuclear Materials Management**

**INOF—Integrated Nuclear Operations Facility**

**INPO—Institute of Nuclear Power Operations**

**InRad or INRAD—intrinsic radiation**

**in./s—inches per second (use ips for wire and tape speeds)**

**INS—1. inertial navigation system  
2. Immigration and Naturalization Service**

**INSAR—integrated nuclear safety analysis report**

**INSI—initial nuclear safety (or surety) inspection**

**INSPEC—Information Services for Physics, Electronics, and Computing**

**INTEC—in-hours technical education course**

**INTELSAT—international consortium for communications satellites**

**INU—inertial navigation unit**

**IO—intelligence officer**

**I/O—input/output**

**IOC—initial operational capability**

**IOCD—initial operational capability date**

**IOCS—input/output control system**

**IOIS—input/output interface system**

**IOM—inert operational missile**

**IONDS—integrated operational NUDET detection system**

**IORV—inadvertently opened relief valve**

**IOS—1. Institute of Oceanographic Sciences 2. input/output subsystem (Cray)**

**IOSAFS—integrated optical safety, arming, and firing system**

**IOU—International Octel Users**

**IP—1. integrated perimeter 2. initial production 3. integration project (or program) 4. interface processor**

**IPA—individual performance award**

**IPARS—integrated procurement/accounts (payable and) receiving system**

**IPB—illustrated parts breakdown**

**IPC—interprocess communication**

**IPD—implementation phase document**

**IPDP—individual personnel development plan**

**IPE—individual plant examination**

**IPF—image processing function**

**IPG—interproject group**

**IPL—Information Processing Language (computers)**

**IPlan—Implementation Plan**

**IPM—integrated pest management**

**IPP—industrial partnership (or partnering) program**

**IPPPS—integrated perimeter physical protection system**

**IPR—1. in process of review 2. impulse response**

**ips—inches per second (used for wire and tape speeds) (see in./s)**

**IPS—1. information procurement system  
2. integrated procurement system**

**IPS/E—integrated procurement system/  
extended**

**IPS/R—integrated procurement system/  
replacement**

**IPST—initial production systems test**

**Ir—iridium (chemical symbol)**

**IR—1. infrared radiation 2. insulation  
resistance**

**IRI—industrial risk insurer**

**IRA—1. impact ratio analysis  
2. International Research Association**

**IRBM—intermediate-range ballistic missile  
(often called IBM)**

**IRBS—intermediate-range booster system**

**IRC—inspection record card**

**IR&D—1. industry research and development  
2. internal research and development**

**IRE—Institute of Radio Engineers**

**IREP—Integrated Reliability Evaluation  
Program**

**IRIG—inter-range instrumentation group**

**IRIS—1. infrared intrusion sensor  
2. intelligent robotics inspection system 3.  
imaging radicals intersecting with surfaces 4.  
Incorporated Research Institutions for  
Seismology 5. integrated risk information  
system**

**IRM—1. isothermal remanent magnetization  
2. information resources management 3.  
interim remedial measure**

**IRMA—IR modeling and analysis**

**IRMS—integrated resource management  
system (obsolete, now integrated services  
management system)**

**IRN—internal restricted network (SNL)**

**IROE—intelligent robot operating  
environment**

**IRQ—interrupt request**

**IRRV—intermediate-range reentry vehicle**

**IRS—interim recovery system**

**IRSSY—infrared signature system**

**IRT—inactive record transfer**

**IRU—item reporting units**

**IRV—interim reentry vehicle (parachutes)**

**IR/V/UV—infrared/visible/ultraviolet**

**IS—1. information system 2. information  
service 3. inactive stockpile**

**I/S—inflation/spin-up**

**ISA—1. International Security Affairs  
2. Inter-national Standard Atmosphere  
3. inertial sensor assembly 4. industry  
standard architecture 5. interservice support  
agreement 6. Instrument Society of America**

**ISAAC—in-hours stand-alone computer  
course**

**ISAS—integrated small artillery synthesis**

**ISAT—information systems advance team**

**ISB—independent sideband (modulation)**

**ISC—1. Instrument Sector Committee (sub-  
division of ANMC) 2. integrated systems  
checkout**

**ISD—1. interface sequence document  
2. instructional systems design**

**ISDN—integrated services digital network**

**ISE—1. ideas in science and electronics  
2. ion selective electrode**

**ISEC—insider (or internal) security**

**ISEM—insider safeguards effectiveness model**

**ISFSI—independent spent-fuel storage  
installation**

**ISHM—International Society for Hybrid  
Microcircuits**

**ISHTE—in-situ heat-transfer experiment**

**ISI—1. Internal Systems, Inc. 2. Integral  
Systems, Inc. 3. Institute for Scientific  
Information 4. in-service inspection**

**ISIMU—ISHTE simulation**

**ISIS—1. integrated storm information system  
2. integrated security information system**

**ISIT—intensified silicon intensified target**

**ISLR—integrated sidelobe ratio**

**ISLS—intent stronglink switch**

**ISN—internal secure network (SNL)**

**ISMS—integrated services management  
system (replaces IRMS)**

**ISO—1. International Standards Organization  
2. International Security Operations**

**ISO OSI—ISO open systems interconnect**

**ISOSHL—**isotope shielding calculations  
(computers)****

**ISP—1. integrated simulator program  
2. Inter-national Security Policy**

**ISPA—Independent Security Police  
Association (formerly International Guards  
Union of America)**

**ISPO—International Safeguards Project  
Office**

**ISR—1. interrupt service routine 2. Inter-  
national Survey Research (Corporation)**

**IS&RC—Intelligent Systems and Robotics  
Center**

**ISS—integrated security system**

**ISSN—international standard serial number**

**ISSW—International Symposium on  
Shockwaves**

**IST—1. integrated simulated testing  
2. infrared search and track 3. in-situ  
treatment 4. in-service testing**

**ISTEA—Intermodal Surface Transportation  
Efficiency Act**

**ISTM—International Society for Testing  
Materials**

**ISTV—intra-site support transport vehicle**

**ISV—1. in-situ vane 2. in-situ vitrification**

**ISVP—individual small value purchase**

**IT—Italy**

**I&T—integration and testing**

**ITA—independent technical assessment**

**ITAG—inertial terrain-aided guidance**

**ITAR—international traffic in arms  
regulations**

**ITC—1. International Training Course  
2. Integrated Textile Complex**

**ITER—International Thermonuclear  
Experimental Reactor**

**ITI—1. ion track instrument 2. incoming test  
and inspection**

**ITIS—integrated technical information system**

**ITL—intent to launch**

**ITMS—ion trap mass spectrometer**

**ITOSS—intent trajectory operated signal  
source**

**ITP—international technology program**

**ITR—information technology resources**

**ITRI—Inhalation Toxicology Research  
Institute (SNL)**

**ITS—Integrated Tiger Series**

**ITU—International Telecommunications  
Union**

**ITV—1. improved tow vehicle  
2. instructional television**

**ITW&A—integrated tactical warning and  
assessment**

**ITW/AA—integrated tactical warning/attack  
assessment**

**IUO—insulated uranium oxide**

**IUQS—intent unique signal**

**IV—independent verification**

**IVAF—independent vulnerability assessment  
facility**

**IVAN—independent vulnerability analysis**

**IVHS—intelligent vehicle highway system**

**IVR—interactive voice response**

**IVSN—initial voice switched network (NATO)**

**IV&V—independent validation and  
verification**

**IWDR—interim weapon development report**

**IWG—interface working group**

**IWRP—industrial waste reduction program**

**IX—ion exchange**

## **J**

**J—joule (work, energy, quantity of heat)**

**JA—job assignment**

**JAAF—Joint Action Armed Forces**

**JAAN—Joint Action of the Army and Navy**

**JAC—Joint Apprenticeship Committee (or  
Council)**

**JAD—Joint Application Design**

**JAEIC—Joint Atomic Energy Intelligence  
Committee**

**JAERI—Japanese Atomic Energy Research  
Institute**

**JAIEG—Joint Atomic Information Exchange  
Group (US/UK)**

**JANNAF—Joint Army, Navy, NASA, Air  
Force**

**JANUS—name of the Nd glass laser system**

**JAST—Joint Advanced Strike Technology**

**JAWS—just another weld simulator**

**JAWTIG—Joint Atomic Weapon Technical Information Group**

**JB—junction box**

**JBFSAW—Joint Board on Future Storage of Atomic Weapons**

**JCFM—Joint Chiefs of Staff Memorandum**

**JCL—control language commands for controlling job flow**

**JCMPO—Joint Cruise Missile Project Office**

**JCO—justification for continued operation**

**JCS—Joint Chiefs of Staff (DoD)**

**JCSAN—JCS alerting network**

**jet—junction**

**J/deg—joule per degree**

**JDL—Joint Directors of Laboratories (DOE)**

**JDSSC—Joint Data Services Support Center**

**JEAC—Joint Electric Armaments Committee**

**JEDEC—Joint Electron Device Engineering Council**

**JEEP—Joint Emergency Evaluation Plan**

**JERI—Japan (Atomic) Energy Research Institute**

**JET—Joint European Tours**

**JEWC—Joint Electronic Warfare Center**

**JFET—junction field-effect transistor**

**JFSC—Joint Firearms Safety Committee**

**JFTP—Joint Flight Test Plan**

**JI—Johnston Island**

**JIIC—junction-isolated integrated circuit**

**JINMM—Journal of the Institute of Nuclear Materials Management**

**JINTACCS—Joint Interoperability for Tactical Command and Control Systems**

**JIT—1. joint interface test 2. Just-in-Time (purchasing system)**

**JITF—Joint Interface Task Force**

**J/K—joule per kelvin**

**JMH—Joint Mission Hardware**

**jmp—jump**

**JNACC—Joint Nuclear Accident Coordinating Center**

**JNWPS—Joint Nuclear Weapons Publication System**

**JOCG—Joint Ordnance Commanders Group**

**JOM—Journal of Minerals**

**JON—judgment of needs**

**JOPES—Joint Operation Planning and Execution System**

**JOR—Joint Operational Requirement**

**JOSS—Johnniac open shop system (computers)**

**JOTS—Joint operational telephone system**

**JOVIAL—Jules (Schwartz) Version of the Inter-national Algorithmic Language (computers)**

**JOWOG—Joint Working Group (US/UK bilateral defense agreement)**

**JPL—Jet Propulsion Laboratory**

**JPMO—Joint Program Management Office**

**JPO—Joint Program Office**

**JPT—Journal of Petroleum Technology**

**JRADS—Joint response assessment data system**

**JRC—1. Joint Reconnaissance Center  
2. Joint Research Center (Ispra, Italy)**

**JRERE—Journal of Radiation Effects, Research and Engineering**

**JRMB—Joint Requirements and Management Board (formerly DSARC)**

**JRSC—jam-resistant secure communications**

**JRSWG—Joint Reentry Systems Working Group Agreement (US/UK)**

**JSA—job safety analysis**

**J-SIDDS—Joint Services interior intrusion detection system**

**JSP—jacketed soft point**

**JSR—jump to subroutine**

**JSSIN—Joint staff system information network**

**JSSIS—Joint staff support information system**

**JSSP—Joint stockpile sampling program**

**JSTPS—Joint strategic target planning staff**

**JTA—Joint test assembly**

**JTACMS—Joint tactical missile system**

**JTAG—Joint test action group**

**JTC3A—Joint Tactical Command, Control, and Communications Agency**

**JTF—Joint task force**

**JTFC—Joint Tactical Fusion Center**

**JTG—joint task group**

**JTIDS—Joint tactical information distribution system**

**JTPR—Joint technology panel for robotics**

**JTS—Joint test subassembly**

**JTSMG—Joint theatre surety management group**

**JTU—Joint test unit**

**JTWG—Joint test working group**

**JVE—Joint verification experiment**

**JWG—Joint working group**

## **K**

**k—kilo (prefix indicating 10<sup>3</sup>)**

**K—1. kelvin (thermodynamic temperature; since 1967 the degree symbol has been discontinued with K)  
2. kayser (unit of reciprocal length, known as rydberg) 3. thousands: e.g., \$10K = \$10,000  
4. kilobyte (sometimes written kbyte or KB)**

**kA—kiloampere**

**KAFB—Kirtland Air Force Base (NM)**

**KAO—Kirtland Area Office (DOE)**

**KAVE—K-nearest neighbor average**

**kb—kilobar (also kbar); kilobit**

**KB—kilobyte (see kbyte)**

**Kbar—kilo bar**

**kb/s or kbps—kilobits per second**

**kbyte—kilobyte (see K or kbyte)**

**kc—kilocycle (obsolete; use kHz instead)**

**KC or KCP—Kansas City Plant (see BKC or AS/KCD)**

**KC3—Kirtland Community Coordinating Council**

**kcal—kilocalorie (also known as kilogram-calorie, kg-cal)**

**KCAO—Kansas City Area Office (DOE)**

**KCAS—knots calibrated airspeed**

**KCD—Kansas City Division of the Allied Signal Aerospace Corporation (also see AS/KCD and BKC)**

**kCi—kilocurie**

**kc/mol—kilocalories per mole**

**kc/s—kilocycle per second (use Hz instead)**

**KE—kinetic energy**

**ker—kernel**

**keV—kilo electron volt**

**KEW—kinetic energy weapon**

**KF—key finding**

**kft—kilofeet (SI units preferred)**

**kg—kilogram**

**kG—kilogauss**

**KGB—Soviet Ministry of State Security (translation)**

**kg cal—kilogram-calorie (see also kcal)**

**kgf—kilogram force**

**kgm—kilogram-meter**

**Kg-m<sup>2</sup>—kilogram-meter squared**

**KH—reconnaissance satellite series designator**

**kHz—kilohertz**

**KI—stress intensity factor for Mode I crack opening (see KIc)**

**KIAS—knots indicated airspeed**

**KIc—critical stress intensity factor for Mode I crack opening (see KI)**

**kin—kinetic**

**kip—kilopound**

**kJ—kilojoule**

**KKR—Korringa-Kohn-Rostoker**

**kL—kiloliter**

**kLD—thousands of level detectors**

**km—kilometer**

**km/h—kilometer per hour**

**KMR—Kwajalein Missile Range**

**KMS—KMS Fusion Inc.**

**km/s—kilometers per second**

**kn—knot (speed)**

**KN or kN—kilonewton**

**kNM—kilo nautical miles**

**kohm—kilo ohm**

**KOP—knowledge of process**

**KOR—knowledge of results**

**KP—known precedent**

**K&P—Koogle and Pouls (Engineering)**

**KPL—Key Personnel Locator**

**KPP—Knowledge Preservation Project**

**krad—kilorad**

**KREMS—Kierman reentry measurement system**

**Krf—krypton-fluoride**

**KSC—1. Raman Sciences Corporation  
2. Kennedy Space Center**

**kt—kiloton**

**KTACS—Korean tactical air control system**

**KTAS—knots true airspeed**

**KTF—Kauai test facility (Hawaii)**

**KUMD—know, understand, manage, and document**

**KUMSC—Kirtland Underground Munitions Storage Center (or Complex)**

**kV—kilovolt**

**kVA—kilovolt ampere**

**kvar—kilovar**

**KVM—Kerr voltage monitor**

**kVp—kilovolt potential**

**kW—kilowatt**

**kWe—kilowatt of electrical energy**

**kWh—kilowatt hour**

**KWI—key word index**

**kWt—kilowatt of thermal energy**

## **L**

**L—1.** Since Nov. 16, 1976, the capital L has been used as the US symbol for liter. This is because the lower case L (l) can be confused with the numeral 1. (See The Metric Reporter, 4:26 dated December 24, 1976 or Office Procedure Manual II dated February 24, 1978. **2.** lambert (unit of luminance) **3.** loop **4.** leadership (one of the five corporate values; see I, Q, R, and T) **5.** link (as in L1)

**LA—limited area**

**LAAO—Los Alamos Area Office (DOE)**

**LAARC—lightweight, air-transportable, accident-resistant container**

**LABCOM—Laboratory Command (Army: Adelphi, MD)**

**LAC—lightning arrester connector**

**LACE—low (power) atmospheric compensation experiment**

**LADAR—1.** laser detection and ranging **2.** laser radar

**LADD—low angle drogue delivery**

**LAFO—Los Alamos Field Office (DOE)**



**LAMP**—Lagrangian measurement platform

**LAMPF**—Los Alamos Meson Physics Facility

**LAN**—local area network

**LANCE**—dual capable, short range missile (Army)

**LANL**—Los Alamos National Laboratory

**LANTCOM**—Atlantic Command

**LANTIRN**—low altitude navigation targeting infrared night

**LAP**—Livermore assessment program

**LAPRADS**—low altitude parachute retrorocket air-drop system

**LARS**—laser articulated robotic system

**laser**—light amplification by stimulated emission of radiation (originally an acronym, but now accepted as a word)

**LASL**—Los Alamos Scientific Laboratory (obsolete; see LANL)

**LASS**—1. laser spark spectroscopy  
2. large area smoke system

**lat**—latitude

**LAT**—1. lock and tumbler 2. local area terminal (or transport) 3. lot acceptance test

**LATA**—Los Alamos Technical Associates

**LAV**—light armored vehicle

**LAW**—light anti-tank weapon

**LAZAP**—laser application

**lb**—pound

**lbf**—pound force

**lbf/ft**—pound force per foot

**lb/ft**—pounds per foot

**lb/ft<sup>2</sup>**—pounds per square foot (see psf)

**lb/ft<sup>3</sup>**—pounds per cubic foot (sometimes written as pcf, but lb/ft<sup>3</sup> is preferred)

**lb/in.**—pounds per inch

**lb/in<sup>2</sup>**—pounds per square inch (also psi)

**LBL**—Lawrence Berkeley Laboratory

**lbm**—pound mass

**LBNL**—Lawrence Berkeley National Laboratory

**LBR**—large breeder reactor

**LBRV**—large ballistic recovery vehicle

**LBTs**—land-based test site

**LC**—1. liquid chromatography 2. liquid crystal 3. load car 4. laser communication 5. labor costs 6. lethal concentration 7. locked closed

**LCAC**—landing craft air cushion

**LCB**—Laboratory Coordinating Board

**LCC**—1. lifecycle cost 2. Launch Control Center 3. launch control console

**LCCA**—leadless chip carrier assembly

**LCD**—1. local control and display  
2. liquid crystal device (or display)

**LCE**—1. laboratory component evaluation  
2. launch control error

**LCF**—latent cancer fatalities

**LCG**—launch control group

**LCM—least common multiple**

**LCO—limiting condition of operations**

**LCP—Lifecycle Plan**

**LC-SC—1. launch control to security control  
2. launch control security car**

**LCSS—lightweight camouflage screening system**

**LCT—laboratory component test**

**LCTF—lost circulation test facility**

**LCTP—laboratory component test program**

**LD—1. laser diode 2. lethal dose  
3. laydown 4. logistics demonstration**

**L/D—1. link/diameter 2. Lift/drag 3. Level detector (unit)**

**LDA—lasar diode array**

**LDAS—laboratory document accountability system**

**LDI—1. (Bell) Laboratories design information 2. laser diode ignition**

**Ldn—equivalent day/night (sound level)**

**LDR—land disposal restriction**

**LDRD—Laboratory Directed Research and Development**

**LDS—laser dazzle sight**

**LDV—laser Doppler velocity**

**LDW—loss damage waiver**

**LE—1. low explosive 2. low exposure**

**LEAP—1. Livermore Employees Assistance Plan (or Program) 2. lightweight exoatmospheric projectile**

**LEBA—line source electron beam annealing**

**LECIVA—low-energy, charge-inducted voltage alteration**

**LECS—liquid effluent control system**

**LED—light-emitting diode**

**LEE—logistical evaluation exercise**

**LEED—low-energy electron diffraction**

**LEF—laser-excited fluorescence**

**LEG—logistical evaluation group**

**LEGM—low energy gamma monitor**

**LEHR—Laboratory for Energy-related Health Research**

**LEL—lower explosive limit**

**LEMUF—limit of error on material unaccounted for**

**LEP—low-emissions partnership**

**LEPC—local emergency planning committee**

**LER—licensee event report**

**LERC—1. Lewis Research Center  
2. Laramie Energy Research Center**

**LES—1. launch enable switch 2. loaded equipment section**

**LET—linear energy transfer**

**LETC—Laramie Energy Technology Center**

**LEU—low-enriched uranium**

**LEV—local exhaust ventilation**

**If or LF—1. low frequency 2. live fire**

**LFBSR**—linear feedback shift register

**LFE**—1. L-band front end 2. liquid field emission

**LFL**—lower flammable limit

**LFR**—live fire range

**LGB**—laser-guided bomb

**LGVSS**—light grid vault surveillance system

**LH**—labor hour

**LHe**—liquid helium

**LHP**—1. Lovelace Health Plan (NM)  
2. leadless hermetic package

**LHS**—Latin hypercube sampling

**LHX**—light-helicopter experiment

**LIC**—low-intensity conflict

**LICA**—low-intensity cobalt array

**LiD**—lithium deuteride

**LIDAR**—light detection and ranging

**LIF**—laser-induced fluorescence

**LIFE**—analysis of in-pile fuel elements (computers)

**LIFO**—last-in, first-out

**LIGA**—a German acronym for lithography, electroplating, and molding

**LiH**—lithium hydride

**LIHE**—light-initiated high explosive

**lim**—limit

**lim inf**—limit inferior

**lim sup**—limit superior

**lin**—1. lineal 2. linear

**linac**—linear accelerator

**LINC**—Laboratory information network committee

**LINK**—Laboratory information network

**LINPACK**—a massively parallel benchmark problem

**LIOCS**—logical input/output control system (computers)

**LIPS**—laboratory integration and prioritization system (part of ISMS)

**LIRB**—lithium ion rechargeable battery

**LIS**—Laboratory information system

**LISA**—linear infrared scanning array

**LISN**—line impedance stabilization network

**LISP**—list processing (computers)

**Li/Tc**—lithium thionyl chloride

**LIVA**—light-induced voltage alteration

**LIWG**—line implementation working group

**LJT**—Long-Junior Trilock

**LKKR**—layered Kohn, Korringa, and Rostoker

**ll**—live load

**LLA**—1. launch loader adapter 2. lowest logical airfare

**LLC**—limited-life component

**LLCE**—limited-life component exchange

**LLD—1. low level delivery 2. lower limit of detection**

**LLE—launch location error**

**LLGPT—low level general-process trash**

**LLL—1. low light level (optics) 2. low level logic (computers)**

**LLMW—low level mixed waste**

**LLNL—Lawrence Livermore National Laboratory**

**LLRW—low level radioactive waste**

**LLRWPA—Low Level Radioactive Waste Policy Act**

**LLTB—long life thermal battery**

**LLV-1—Lockheed Launch Vehicle**

**LLW—1. low level waste (nuclear waste technology) 2. leaky Lamb wave**

**lm—lumen (luminous flux)**

**LM—low melting**

**LNC—Lockheed-Martin Corporation**

**LMCS—loop multiplexer communication system**

**LMEAT—Line Managers' ES&H Action Team**

**LMF—1. Laboratory Microfusion Facility 2. Large-Scale Melt Facility 3. local monitoring facility**

**LMFBR—liquid metal fast breeder reactor**

**lm/ft<sup>2</sup>—lumens per square foot**

**lm/m<sup>2</sup>—lumens per square meter**

**LMMS—land mobile missile system**

**LMOS—loop maintenance operations system**

**LMR—1. limited message retriever 2. liquid metal reactor**

**lm-s—lumen second**

**LMSC—Lockheed Missile and Space Company (Sunnyvale, CA)**

**lm/W—lumens per watt**

**ln—logarithm (natural) (see log)**

**LNA—low noise amplifier**

**LNG—liquified natural gas**

**LNP—loss of normal power**

**LO—1. local oscillator 2. low observable 3. locked open 4. limitation of obligations**

**LOA—leave of absence**

**LOB—1. line of business 2. launch operations building**

**LOC—1. limited operational capability 2. loss of communication 3. level of concern**

**LOCA—loss-of-coolant accident**

**LOCAAS—low-cost, anti-armor submunition**

**LOCAP—low capacitance (cable)**

**loc.cit.—loco citato (in the place cited)**

**LOCUSP—low-cost uncooled sensor prototype**

**LOCV—loss of condenser vacuum**

**LOD—letter of determination**

**LOE—level of effort**

**LOF—loss-of-flow (accident)**

**LOFAR**—low frequency acquisition and ranging

**LOFT**—loss-of-fluid test

**log**—logarithm (common); see **ln**

**LOGCAP**—logistics and command assessment of projects

**long**—1. longitudinal 2. longitude

**LOOP**—loss of offsite power

**LORAN**—long-range navigation

**LOS**—line-of-sight

**LOTA**—loss of target accident

**LOTO**—lockout/tagout

**LOTS**—lightweight optical tracking system

**LOV**—letter of violation

**LOW**—launch on warning

**LOX**—liquid-oxygen explosive

**LP**—1. liquid propellant 2. linear programming

**LPCVD**—low-pressure chemical vapor deposition

**LPE**—liquid-phase epitaxy

**LPF**—low pass filter

**LPG**—1. liquified petroleum gas 2. liquid propellant gun

**LPI**—1. low probability of intercept 2. low pressure injection

**LPLIF**—laser-photoanalysis, laser-induced fluorescence

**lpm**—line pairs per millimeter

**LPPP**—low pressure pump pad

**LPRS**—low pressure recirculation system

**LPRSX**—low pressure recirculation system (heat) exchanger

**LPR**—laboratory process reengineering

**LPS**—laser plasma source

**LPSO**—Lead Principal Secretarial Office (DOE)

**LPSS**—line protection switching system

**LPSW**—low pressure service water

**LPT**—line printer

**LQ**—limited quantity

**Lr**—Lawrencium (chemical symbol)

**LR**—1. letter requirement 2. light replica

**LRA**—long-range aviation

**LRAM**—long-range attack missile

**LRD**—light replica decoy

**LRF**—laser resonant fluorescence

**LRINF**—long-range intermediate nuclear force

**LRIP**—low rate initial product

**LRMDS**—lightweight radar mine detector system

**LRP**—1. long-range plan 2. lightweight retractable pole

**LRSP**—long-range security plan (or program)

**LRU**—line replaceable unit (module)

**LS—1. launch system 2. loaded salary  
3. loop seal**

**L/s—liters per second (use ft<sup>3</sup>/min instead)**

**LSA—1. logistic support analysis 2. low  
specific activity**

**LSB—least-significant bit (computers)**

**LSC—1. linear-shaped charge 2. Life Safety  
Code (NFPA 101)**

**LSD—least-significant digit (computers)**

**LSE—liaison element**

**LSG—laboratory support group**

**LSI—large-scale integrated (circuit)**

**LSO—1. laser safety officer 2. Lovelace senior  
options**

**LSP—Lovelace Senior Plan**

**LSTC—Livermore Software Technology  
Corporation**

**LSTS—1. launch system test set 2. launch  
system test sequence**

**LSWD—large screen wall display**

**LT—laser tracker**

**LTA—less than adequate**

**LTC—limited try count**

**LTD—long-term disability**

**LTE—local thermodynamic equilibrium**

**LTG—Laboratory Task Group**

**LTGen.—Lieutenant General**

**LTH—lethality and target hardening**

**LTI—launch test inert**

**LTIV—launch test inert vehicle**

**LTPD—lot tolerance percent defective**

**LTPE—laboratory test program evaluation**

**LTRA—long term response action**

**LTSFF—limited-term staff**

**LTSPME—long-term savings plan for  
management employees**

**LTSSP—long-term savings and security plan**

**LTU—laboratory test unit**

**LTV—Ling-Temco-Vought**

**LUA—launch under attack**

**lub—least upper bound**

**LUG—local user's group**

**LUST—leaking underground storage tank**

**lux—the SI unit of illumination, equal to 1  
lumen per square meter**

**LVC—load verification code**

**LVDT—linear variable displacement (or  
differential) transformer**

**LVPS—low voltage power supply**

**LVT—1. linear velocity transducer  
2. landing vehicle tracked**

**LVTB—low voltage thermal battery**

**LWC—1. liquid water content (climatology)  
2. lost workday case**

**LWG—logistic working group**

**LWIR—long wavelength infrared**

**LWIS**—lightweight instrumentation system

**LWR**—light water reactor

**LWRP**—Livermore Water Reclamation Plant

**lx**—illuminance (use lux)

**LY**—low yield

## M

**μ**—micro- (AIP still uses micron, which they list as μ. Many Sandia scientists also use micron in certain instances.)

**μA**—microampere

**μAh**—microampere hour

**μC**—microcoulomb

**μF**—microfarad

**μg/m<sup>3</sup>**—do not use μg/mcu

**μJ**—microjoule

**μm**—micrometer (formerly called micron; see μ- above)

**μs**—microsecond (do not use μsec)

**m**—meter

**m-** —milli (a prefix indicating 10<sup>-3</sup>)

**M**—1. millions (Use with dollar sign: \$14 M)  
2. mole 3. molarity (chemistry)  
4. mega (a prefix indicating 10<sup>6</sup>) 5. moment (magnitude) 6. molarity (chemistry)

**M-** --mega (prefix indicating 10<sup>6</sup>)

**mW**—milliohm

**MW**—megohm

**mA**—milliampere

**MA**—1. mega ampere 2. management associate (or aide) 3. military application 4. maintenance

**M&A**—maintenance and assembly (Army)

**M.A.**—Master of Arts

**MAA**—1. mission area analysis  
2. material access area

**M.AACS**—MELCOR Accident Consequence Code System

**MAAG**—Military Assistance Advisory Group

**MAB**—Marine amphibious brigade

**MABE**—mega ampere beam experiment (accelerator)

**MAC**—1. material accountability computer 2. Military Airlift Command  
3. modified auxiliary closure

**MACCS**—MELCOR accident consequence code system

**MACS**—1. multiple-application coded switch  
2. multiple-application computer system

**MACY**—Military Assistance Command, Vietnam (US)

**MAD**—1. maintenance, assembly, and disassembly (atomic weapons) 2. magnetic anomaly detection

**MADDs**—machine-aided design definition system (computers)

**MADM**—medium atomic demolition munition

**MADT**—microalloy diffused transistor

**MAF—1. Marine Amphibious Force**  
**2. moisture ash free**

**mag—magnetic**

**MAGIC—manual-aided gaming of integrated combat (an electromagnetic particle-in-cell code)**

**MAGID—magnetic intrusion detector**

**MAGLEV—magnetic levitation (sometimes written as mag-lev)**

**MAGLOC—magnetic logic computer**

**MAGTF—Marine Air Ground Task Force**

**mAh—milliampere hour**

**MAID—1. monitor adapter isolation device**  
**2. magnetic anti-intrusion detector**

**MAIT—matrix analysis of the inside threat**

**MAJCOM—Major Command**

**MAN—Management Assurance Notebook**

**MANAR—modular adaptable network for alarm reporting**

**MANOP—Manganese Nodule Program**

**MANOS—Spanish word for hands (Program is designed to help Spanish speakers in science and engineering.) See HOMOT—a similar program for African Americans. Dream Catcher is the American Indian program.**

**MANTECH—Manufacturing Technology**

**MAP—1. macroassembly program (computers) 2. mass analysis of particulates**  
**3. Mitigation Action Plan**

**MAPS—1. modular azimuth positioning system 2. multiple automated printing system**

**MAR—1. major article release 2. major assembly release**

**MARGE/SLUMP—fuel slumping (computers)**

**MARRS—mobile autonomous robotics research system**

**MARS—module autonomous robotics system**

**MARV—maneuverable (or maneuvering) reentry vehicle**

**MAS—1. material accountability system**  
**2. multi-application surety 3. mine safety appliances**

**MASC—1. manned automated security console 2. marine automated security console**

**MASER—microwave amplification by stimulated emission of radiation**

**MASP—mobile automatic scanning photometer**

**MASS—modular advance search system**

**MaST—maneuvering systems technology (or test) (sometimes written as MST)**

**MAST—1. multiple application (sometimes seen as multi-application) surety technology 2. multi-axis seam tracking**

**MatResLib—material response library**

**MATV—master antenna television (system)**

**MAUS—mobile automated ultrasonic scanner**

**MAVIS—modeling and analysis of valve interactions (computers)**

**MAW—medium assault weapon**

**MAWP—maximum allowable working pressure**

**max—maximum**



**MAXH**—maximum homogeneity

**mb**—millibar (sometimes written mbar)

**Mb**—megabit

**MB**—machine basin

**MB or Mbyte**—megabyte

**MBA**—1. material balance accounting (or area) 2. management, budget, and accounting 3. main battle area 4. Masters of Business Administration

**MBB**—modular building block

**MBC**—meteor burst communication

**MBE**—molecular beam epitaxy

**MB/EE**—Brazilian designator for a ballistic missile series

**MBFR**—mutual and balanced force reduction

**MBN**—Marine battalion

**MBNQA**—Malcolm Baldrige National Quality Award

**MBO**—management by objective

**MBPS**—megabits per second (use Mb/s)

**Mb/s**—megabits per second

**MBS**—modified bremsstrahlung

**MBWA**—managing by walking around

**Mbyte**—megabyte (see MB)

**mC**—microcoulomb

**Mc**—megacycle (obsolete; use MHz)

**MC**—1. major component 2. manual chapter 3. military characteristics 4. management controls

**MCA**—1. multichannel analyzer 2. maximum credible accident 3. material condition and aging

**MC&A**—material control and accountability (or accounting)

**MCAAP**—McAlester Army Ammunition Plant

**MCC**—1. missile combat crew 2. Micro-electronics and Computer Corporation

**MCCS**—1. multiple-code coded switch 2. mobile command and control system

**MCCSS**—multiple-code coded security switch

**MCD**—1. Mail Channel Directory 2. monitor control and display

**M/CD**—mental (health) chemical dependency

**MCF**—magnetic confinement fusion

**mCi**—millicurie

**MCi**—megacurie

**MCL**—1. maximum containment level 2. maximum contaminant level 3. maximum concentration limit

**MCLG**—maximum contaminant level goal

**MCM**—1. mine countermeasures 2. main control module 3. mission control module 4. manual control module 5. multichip module

**MCP**—1. microchannel plate 2. medical care plan 3. monolithic colliding pulse 4. mission check (word) processor 5. missile consent panel

**MCR**—medical clearance for respiratory (protection)

**MCS**—1. maintenance control system  
2. maneuver control system 3. master control system

**MCTL**—militarily critical technologies list

**MCU**—multiplexer control units (computers)

**md**—median

**mD**—millidarcy (geology)

**Md**—mendelevium (chemical symbol; sometimes written as Mv)

**M&D**—maintenance and development

**MDA**—1. methylene dianiline  
2. minimum detectable activity (or amount)

**MDAC/OEC**—McDonnell Douglas Astronautics Company/Opto Electronics Center

**MDD**—Mission Data Directory

**MDE**—manufacturing development engineering (program)

**MDF**—1. mild detonating fuze 2. main distribution frame

**MDI**—methylene diisphenyl isocyanate

**MDL**—1. minimum detectable level  
2. Microelectronics Development Laboratory

**MDM**—microminiature D-shape metal

**MDMSC**—McDonnell Douglas Missile Systems Company

**MDR**—mandatory dry run

**MDTD**—minimum detectable temperature difference

**MDTI**—McDonnell Douglas Technologies, Inc.

**MDU**—munitions dummy unit

**Me**—mass of electrons

**MEAFSA**—Middle East, Southern Asia and Africa (South of the Sahara)

**meas**—measure; measurement; measurable

**MEASIM**—measurement simulation (computers)

**MEBES**—manufacturing electron beam exposure system

**MEC**—Microsystems Engineering Corporation

**MEIDS**—1. militarized electronic information delivery system  
2. miniaturized electronic information delivery system

**MEK**—methylethylketone

**MEL**—1. material on external loan  
2. monitoring exposure level (or logic)  
3. master equipment list

**MELCOR**—computer code for the US NRC

**MELIOS**—mini-eye-safe laser infrared observation set

**MELT**—multiple-channel analysis of top accidents (computers)

**MEP**—mobile electric power

**MEPS**—multimedia environmental pollutant (assessment) system

**MER**—material evaluation reactor

**MERADCOM**—Mobility Equipment Research and Development Command (Fort Belvoir, VA)

**MERIT**—mutual efforts to reduce industrial toxins (EPA)

**MES—management evaluation sheet**

**MESA—1. Eulerian hydrocode development at LANL (see CTH) 2. math, engineering, and science achievement**

**MESFET—metal electrode semiconductor field-effect transistor**

**MESH-HAZ—medical, environment, safety, and health hazards**

**MESH-HP—medical, environment, safety, and health/health physics**

**MET—MCCS encryption translator**

**METADEX—metals (abstracts and alloys) index**

**METC—Morgantown Energy Technology Center**

**meV—millielectron volt**

**MeV—megaelectron volt**

**MEW—microwave early warning**

**mf or MF—medium frequency**

**mF—microfarad**

**MF—main fuel**

**MFC—multifuel combustor**

**MFD—1. multi-functional display  
2. military first destinations**

**MFE—magnetic fusion energy**

**MFI—magnetic flashover inhibition**

**MFIS—mosaic filter image sensor**

**MFL—maximum foreseeable loss**

**MFLOPS—million floating point operations per second (computers)**

**MFm—magnetic force microscopy**

**mfp—mean free path**

**MFRFS—manufacturing facilities request for support**

**MFS—microwave fence sensor**

**MFw—main feedwater**

**MFwCS—main feedwater and condensate system**

**mg—milligram**

**MG—motor generator**

**MGA—monochrome graphic adapter**

**mgallon—million gallons**

**MGD—million gallons per day**

**MGH—mass, gravity, height**

**MGM—mobile-guided missile**

**MGS—1. missile guidance set 2. mobile ground system**

**mH—millihenry**

**MHB—medium-height burst**

**MH/CD—mental health/chemical dependency**

**mhd—magnetohydrodynamic**

**MHF—massive hydraulic fracturing**

**MHTGR—modular high-temperature gas reactor**

**mHz—millihertz**

**MHz—megahertz (use instead of megacycle)**

**mi—mile (statute)**

**MI—1. military intelligence 2. moments of inertia**

**M&I—Maintenance and Inspection (Air Force Facility)**

**MIAC—maintenance information and control**

**MIB—master interconnect board**

**MICD—mechanical interface control drawing**

**MICOM—Missile Command (Army)**

**MICSS—mobile integrated C3 and security system**

**MID—material identification document**

**MIDAS—1. management information and data access system 2. mobile intrusion detection and assessment system 3. mobile instrumentation and data acquisition system**

**MIDEP—mine detection energetic photons**

**MIDS—miniaturized intrusion detection system**

**MIFASS—Marine-integrated fire and air support system**

**mi/h or mph—miles per hour**

**MIIP—management integration and implementation program (project or plan)**

**MIIT—materials interface interactions test**

**MIL—1. military 2. military (standard) (DoD)**

**MILCON—military construction**

**MILES—1. magnetic intrusion line sensor 2. multiple-integrated laser engagement system**

**millirem—see mrem**

**MILNET—military network**

**MILSPEC—military specification**

**MILSTAR—military strategic/tactical and relay**

**MILVAN—a standard military freight container**

**MIMD—multiple instruction, multiple data**

**MIMS—modular integrated monitoring system**

**min—1. minute 2. minimum**

**MINIMAGID—miniature magnetic intrusion detector**

**MINISID—miniaturized seismic intrusion detector**

**MinNet—minimization network (waste)**

**MINT—miniature instrumental nosetip test**

**MIP—material in process (formerly MUF: material unaccounted for)**

**MIPR—military interdepartmental procurement request**

**MIPS—MIVS image processing system**

**MIR—managing interpersonal relationships**

**MIRA—microwave infrared alarm**

**MIREC—microreciprocal degree**

**MIRSS—mobile individual resource security system**

**MIRV—multiple, independently (targetable) reentry vehicle**

**MIRVAL**—mirror evaluation (computer program for heliostats)

**MIS**—1. metal-insulator semiconductor  
2. management information services (or system)

**misc**—miscellaneous

**MISER**—minisensor relay (system)

**MISR**—1. modular industrial solar retrofit  
2. multi-angle imaging spectroradiometer

**MISS**—modular intelligent sensor system

**MIT**—Massachusetts Institute of Technology

**MITE**—magnetically insulated transmission experiment

**MITL**—1. man-in-the-loop 2. magnetically insulated transmission line

**MITMS**—military/industry technical manual specification

**MIU**—missile interface unit

**MIVS**—modular integrated video system

**mJ**—millijoule

**Mk or MK**—Mark, a bomb designation; it is followed by a number: Mk 5 (Army uses: MK5)

**Mkg**—megakilogram (use Gg instead)

**MKS or mks**—meter-kilogram-second

**mL**—1. milliliter (also ml, but mL is preferred) 2. Millilambert

**ML**—maximum likelihood

**MLC**—1. Military Liaison Committee  
2. monitor logic circuitry

**MLRS**—multiple-launch rocket system (Army)

**MLS**—1. member of the laboratory staff  
2. multi-level secure

**MLS/MIS**—member of the laboratory staff who has experience or educational background in management information systems

**MLST**—member of laboratory staff trainee

**MLT**—1. munitions lift (or load) trailer  
2. median lethal time

**mm**—millimeter

**mM**—millimole

**MM**—1. Minuteman (missile) 2. memory module 3. formerly Martin-Marietta, now Lockheed-Martin 4. meets most

**MMA**—1. materials measurement and accounting 2. Martin Marietta Aerospace (Orlando, FL)

**MMAD**—mass median aerodynamic diameter

**MMC**—Martin Marietta Corporation

**MMDC**—master message display console

**MMES**—Martin Marietta Energy Systems

**mmf**—magnetomotive force

**mmHg**—millimeter of mercury, (also milliHg)

**MMI**—man-machine interface

**MMIC**—monolithic microwave integrated circuit

**mmol**—millimole

**MMP**—maintenance management program

**MMRBM**—mobile medium-range ballistic missile

**MMS**—1. maintenance management system 2. mission management system  
3. munitions maintenance squadron

**MMSC**—Martin Marietta specialty components

**mmu**—milli-mass unit

**mmW**—millimeter wave

**Mn**—manganese (chemical symbol)

**MNCR**—material non-conformance report

**MNOS**—metal-nitride-oxide semiconductor

**MNR**—mononitroresorcinate

**mo**—month

**Mo**—molybdenum (chemical symbol)

**MO**—move order

**M&O**—management and operations (or managing and operating)

**MOA**—memorandum of agreement

**MOAC**—Management Oversight Advisory Committee

**MOAS**—missile ordnance arm switch

**MOB**—main operating base

**MoC/MOC/M of C**—maintenance of capability

**MOC**—1. material operation computer  
2. margin of control

**MOCVD**—metal-organic chemical vapor deposition

**mod**—1. modification 2. model

**MOD**—Ministry of Defense

**Mod/Alt**—modification/alteration (sometimes written mod/alt)

**ModComp**—trade name for Modular Computer Systems, Inc.

**MODEM**—modulator demodulator (computers)

**MODFET**—modulation-doped field-effect transistor

**MODIL**—Manufacturing Operations Development and Integration Laboratory

**MOFFF**—mixed-oxide fuel fabrication facility

**Mohm**—megaohm

**MOI**—1. moment of inertia 2. magneto-optic (eddy current) imager

**mol**—mole (often spelled out, but can also be M)

**mol %**—mole percent

**mol wt**—molecular weight

**MOLINK**—Moscow to Washington (DC) direct line communication link

**MOM**—method of moments

**MONAL**—Mobile Nondestructive Assay Laboratory

**MOPS**—million operations per second

**MORT**—management oversight and risk tree (accident investigations)

**MOS**—1. metal-oxide semiconductor  
2. metal-oxide silicon 3. military occupational specialty 4. maintenance, out of service

**Mosaic**—high-quality user interface to the web

**MOSFET**—metal-oxide-semiconductor, field-effect transistor

**MOTION**—analysis of head motion due to HCDA loads (computers)

**MOU**—memorandum of understanding

**Mound**—Monsanto Research Corporation, Mound Facility

**MOV**—1. metal oxide varistor 2. motor operated vehicle

**MOVPE**—metal organic vapor-phase epitaxy

**MOX**—mixed-oxide

**mp**—1. melting point 2. mean (effective) pressure 3. Multipulse

**MP**—1. Military Police 2. maintenance procedure 3. massively parallel 4. message processor

**MPa**—megapascal

**MPAC**—Microelectronics and Photonics Applications Center

**MPC**—maximum permissible concentration

**MPCC**—multifunction peripheral controller chip

**MPD**—maximum permissible dose

**MPE**—maximum permissible exposure (radiation)

**MPG**—1. midplate, midgyre 2. managing professional growth

**mph or mi/h**—miles per hour

**MPI**—multiphoton ionization

**MPL**—maximum possible loss

**MPLS**—multiphenomena line sensor

**MPP**—1. massively parallel processor  
2. memory phrase pairs

**MPR**—material-penetrating radar

**MPRSA**—Marine Protection, Research, and Sanctuaries Act (1972)

**MPU**—1. microprocessor unit 2. Marx pulser unit

**MQ**—management qualifications

**MQRC**—Microelectronics Quality/ Reliability Center

**MQW**—multiple quantum well

**mr or mrad**—milliradian

**mR**—milliroentgen

**MR**—1. missile range 2. material requisition  
3. military regions  
4. mortality range

**MRA**—1. monetary recognition award  
2. missile relay assembly 3. military research associate

**mrad or mr**—milliradian

**Mrad**—megarad

**MRBM**—medium-range ballistic missile

**MRC**—maintenance requirement card

**MRD**—Management Review Division (DOE)

**mrem**—millirem (sometimes written as milli-rem)

**MRG**—multiple-range gates

**MRI**—magnetic resonance imaging

**MRL**—multi-purpose rotary launchers

**MRO**—1. memory read out  
2. maintenance, repair, and operating  
3. medical review officer

**MRR**—minimum residual radioactivity

**MRS**—1. material requisition schedule  
2. material requirement schedule  
3. microwave ranging system  
4. Materials Research Society  
5. monitored retrievable storage

**MRST**—management restructure study team

**MRT**—minimum resolvable temperature

**MRTD**—minimum resolvable temperature difference

**MRV**—maneuvering reentry vehicle

**MRVT**—multirate voice terminal

**ms**—millisecond (do not use msec)

**m/s**—meters per second

**mS**—millisiemens

**MS**—1. mass spectrometer (or spectrometry)  
2. monitor and support  
3. motion sensor 4. military service  
5. medical services

**MSA**—1. mine safety appliances 2. major system acquisition

**MSAD**—1. mechanical safe and arm detonator  
2. mechanical safe arming device

**MSB**—most significant bit (computers)

**MSBR**—molten-salt breeder reactor

**MSC**—Major Subordinate Command (NATO)

**MSCA**—multi-site cooperative agreement

**MSCF**—1. Master Surveillance and Control Facility 2. thousand standard cubic feet

**MSCU**—missile secure cryptographic unit

**MSD**—most significant digit (computers)

**MSDS**—material safety data sheet

**MSE**—1. multiple subscriber equipment  
2. Mean-square error

**MSEE**—molten-salt electric experiment

**MSG**—Marine Security Guard

**MSHA**—Mine Safety and Health Administration

**MSI**—1. medium-scale integrated (circuit)  
2. multiple sensor interface 3. multi-sensor imaging

**msl or MSL**—mean sea level

**MSLB**—main steam-line break

**MSMJ**—mechanically stacked, multijunction

**MSP**—marine sediment penetrometer

**MSR**—1. molten-salt reactor  
2. maintenance service request  
3. modular surveillance radar

**MSRC**—multicrystalline silicon research consortium

**MSRV**—medium single (targeted) reentry vehicle

**MSS**—1. mass storage system 2. multi-spectral scanner 3. mission support system

**MSSA**—master safeguards and security agreement

**MSSTF**—midtemperature solar systems test facility



**MST**—1. medium-scale technology  
2. maneuvering systems test (or technology)  
(see MaST)

**MSTA**—materials sample test apparatus

**MSTC**—Maquila Sandia Technology Consortium

**MSTRS**—miniature spacecraft threat reporting system

**MSX**—midcourse sensors experiment

**mt**—metric ton

**Mt**—megaton (see kt)

**MT**—1. manufacturing technology  
2. measured time

**MTA**—multi-threat analyzer

**MTAC**—Machine Tool Access Center

**MTBCF**—mean time between critical failure

**MTBF**—mean time between failures

**MTBOMF**—mean time between operational mission failures

**MTC**—Metal Trades Council (material handling and moving)

**MTCC**—Modular Tactical Communications Center

**MTCR**—Missile Technology Control Regime

**MTE**—measuring and test equipment

**MTF**—modulation transfer function

**MTFPP**—modular tactical force protection package

**mtg**—meeting

**MTHM**—metric tons heavy metal

**MTI**—1. Mechanical Technology, Inc.  
2. multi-spectral thermal imager  
3. moving target indicator 4. maintenance team inspection

**MTL**—master tester list

**MTO**—material transfer order

**mTorr**—millitorr

**MTPM**—mean time to perform (preventive) maintenance

**MTR**—mean time to restore

**MTS**—member of the technical staff

**MTSAA**—multidiscipline technical safety assurance appraisal

**MTTF**—mean time to failure

**MTTFF**—mean time to first failure

**MTTR**—mean time to repair

**mtU**—metric tons uranium

**MU**—1. monitoring unit 2. multiple unit

**MUF**—material unaccounted for (obsolete; now material in process: MIP)

**MULE**—modular universal laser equipment

**MUMS**—munitions maintenance squadron

**MUNSS**—munitions support squadron

**MUSE**—multidimensional user-oriented synthetic environment

**MUX**—1. multiplexing equipment  
2. multiplexer

**mV**—millivolt

**Mv**—mendelevium (chemical symbol) (Md is preferred)

**MV**—megavolt

**MVPD**—median volume pore diameter

**MVS**—multiple virtual storage

**mW**—milliwatt

**MW**—1. megawatt (electrical)  
2. microwave 3. mixed waster 4. missile warning 5. mine warfare

**MWd**—megawatt-day

**MWDS**—missile warning display system

**MWe**—megawatt (electrical); use MW

**MWLID**—mixed-waste landfill integrated demonstration

**MWMF**—mixed waste management facility

**MWO**—modification (or maintenance) work order

**MWR**—morale, welfare, and recreation

**MWRTS**—millimeter wave radio telephone system

**MWSA**—Manzano weapons storage area

**MWth**—megawatt, thermal

**MWX**—Multiwell Experiment (DOE-sponsored Field Laboratory)

**Mx**—maxwell (a unit of magnetic flux)

**MXB**—a commercial name for modified phenolic, glass-fabric filled ammonia

**MX**—1. Peacekeeper ICBM 2. missile

**MY**—man-year

**mya**—myriare (10,000 acres)

**myL**—myrialiter

**mym**—myriameter

**M/Z**—mass-to-charge ratio

**MZI**—Mach-Zehnder interferometry

## **N**

**n**—nano- (a prefix indicating 10<sup>-9</sup>)

**n**—neutron

**N**—1. newton (unit of force) 2. normal (chemistry) 3. nose

**nA**—nanoampere

**NA**—1. not available 2. not applicable 3. numerical aperture 4. network adapter

**NAAMM**—National Association of Architectural Metal Manufacturing

**NAAQS**—national ambient air quality standards

**NAARP**—national aging aircraft research program

**NAB**—National Association of Broadcasters

**NACE**—National Association of Corrosion Engineers

**NACFE**—National Association of Certified Fraud Examiners

**NACOA**—National Advisory Committee on Ocean and Atmosphere

**NAD**—nuclear accident dosimeter

**NADC—Naval Air Development Center**

**NAEP—National Assessment of Educational Progress**

**NAFEMS—National Agency for Finite Element Methods and Standards**

**NAHAMMER—Sodium (Na) Fluid-HAMMER Analysis (computers)**

**NAL—National Aerospace Laboratory (Japanese)**

**NALAP—Sodium (Na) Version of ReLAP (computers)**

**NAND—not-AND (computer logic)**

**NAN—National Atomic Museum**

**NANS—Nuclear Agency, Nuclear Security**

**NAP—1. N AS aperture package  
2. nuclear artillery projectile**

**NAPAP—National Acid Precipitation Assessment Program**

**NAPSAC—Naval Atomic Planning, Support, and Capabilities**

**NAR—nuisance alarm rate**

**NARA—National Archives and Records Administration**

**NARL—Naval Arctic Research Laboratory**

**NARM—naturally (occurring or) accelerator-produced radioactive materials**

**NARS—National Archives Records Service**

**NAS—1. NDS antenna system 2. Netview Access Services 3. nuclear assembly system 4. Naval Air Station 5. National Academy of Sciences**

**NASA—National Aeronautics and Space Administration**

**NASP—nuclear ammunition supply point**

**NATO—North Atlantic Treaty Organization**

**NATRAN—Sodium (Na) Transient Analysis (computers)**

**NAV—1. navigation 2. net asset value**

**NAVAIR—Naval Air Systems Command**

**NAVELEX—Navy Electronics Systems Command**

**NAVEODTECHCEN—Naval Explosive Ordnance Disposal Technology Center**

**NAVFORV—Naval Forces, Vietnam**

**NAVMAT—Naval Material**

**NAVSEA INST—Naval Sea Institute**

**NAVSWC—Naval Surface Weapons Center**

**NAWC—Naval Air Weapons (or Warfare) Center**

**nB—nanobarn**

**NBC—1. nuclear, biological, chemical  
2. non-base compensation**

**NBBPVI—National Board of Boiler and Pressure Vessel Inspectors**

**NBDS—nuclear-burst detection system**

**NBL—New Brunswick Laboratory**

**NBS—National Bureau of Standards (now National Institute of Standards and Technology: NIST)**

**NC—1. normally closed 2. numerically controlled 3. nitrocellulose 4. noise criterion  
5. no contract**

**NC2—nuclear command and control**

**NCA—1. National Contingency Act  
2. National Command Authority**

**NCAICM—National Center for Advanced Information Components Manufacturing**

**NCAM—National Center for Advanced Materials**

**NCAR—nonconformance action report (see NCR)**

**NCAW—neutralized current and waste**

**NCB—Nuclear Contingency Branch**

**NCC—Network Control Center**

**NCCLS—National Committee for Clinical Laboratory Standards**

**NCEM—National Center for Electron Microscopy**

**NCF—no containment failure**

**nCi—nanocurie ( $10^{-9}$  curies)**

**NCM—nonconforming material**

**NCMA—National Contract Management Association**

**NCMS—National Center for Manufacturing Sciences**

**NCO—noncommissioned officer**

**NCOSE—National Council on Systems Engineering**

**NCP—1. National Contingency Plan  
2. National (Oil and Hazardous Substances) Contingency Plan**

**NcPTD—near-field physical theory of diffraction (code)**

**NCR—1. nonconformance report (see NCAR)  
2. no clearance required**

**NCRP—National Council on Radiation Protection (and Measurement)**

**NCRW—neutralized cladding removal waste**

**NCS—1. neutron control 2. network computing system 3. national communications system**

**NC2SG—Nuclear Command and Control Steering Group**

**NCSS—Naval Coastal Systems Station**

**NCTTA—National Competitiveness Technology Transfer Act**

**NCURE—National Center for Ultra-Reliability Engineering**

**ND—1. not determined 2. no date  
3. neutral density**

**NDB—nuclear depth bomb**

**NDE—nondestructive evaluation**

**NDEW—nuclear-driven (or directed) energy weapon**

**NDI—1. nondevelopment item  
2. nondestructive inspection**

**NDP—nuclear detonation pathway**

**NDPC—National Disclosure Policy Committee**

**NDR—1. NUDET detection report  
2. Nuclear Defense Research (Corporation)**

**NDRO—nondestructive readout (computers)**

**NDS—NUDET detection system (or nuclear detection system)**

**ND/SB—nuclear depth/strike bomb**

**NDT—nondestructive test (or testing)**

**NDTWG—Nevada Test Site Development and Transport Working Group**

**NE—nuclear energy**

**NEA—1. Nuclear Energy Agency  
2. nuclear explosive area (or assembly)**

**NEACP—National Emergency Airborne Command Post**

**NEC—National Electrical Code**

**NECOSH—National Electrical Code OSHA**

**NEDS—nonviolent explosive destruct system**

**NEE—noise equivalent emissivity**

**neg—negative**

**NEG—net energy gain**

**NEI—Nuclear Energy Institute**

**NELA—nuclear explosive-like assembly**

**NELIAC—Navy Electronics Laboratory International ALGOL Compilers (computers)**

**NELM—Naval Forces Eastern Atlantic and Mediterranean**

**NEMA—National Electrical Manufacturers Association**

**NEODTC—Naval Explosive Ordnance Disposal Technology Center**

**NEP—1. NAS electronics package 2. noise equivalent power 3. nuclear explosive package**

**NEPA—National Environment Policy Act**

**NEPB—NEST Executive Planning Board**

**NER—network equipment rack**

**NERP—National Environmental Research Park**

**NERVA—nuclear engine for rocket vehicles application**

**NES—1. nuclear explosive safety  
2. National Energy Strategy**

**NESC—1. National Electric Safety Code  
2. National Energy Software Center**

**NESD—Nuclear Explosive Safety Division (DOE)**

**NESEC—Naval Electronics Systems Engineering Center**

**NESHAP—national emission standards for hazardous air pollutants**

**NESS—nuclear explosive safety study**

**NESSG—nuclear explosives safety study group**

**NEST—nuclear emergency search team**

**NET—1. new equipment training 2. noise equivalent temperature**

**NETD—noise equivalent temperature difference**

**NETOG—nuclear explosive tester oversight group**

**NETS—National Emergency Telecommunications System**

**nf—noise factor**

**nF—nanofarad**

**NF—no foreign (distribution)**

**NFA—no further action**

**NFARS—NORAD forward automated reporting system**

**NFE—non-Federal entities**

**NFH—nonflammable hydraulic (fluid)**

**NFPA—1. National Fire Protection Act  
2. National Fluid Power Association**

**NFPQT—nuclear facilities personal qualification and training**

**NFS—1. nuclear fuel services 2. network file system (computers)**

**NG—1. neutron generator  
2. nitroglycerine**

**NGB—National Guard Bureau**

**n/gs—neutron per gram-second**

**NGS—NUDET ground station**

**nH—nanohenry**

**NH—Nike Hercules**

**NHL—next higher level**

**NHPA—National Historic Preservation Act**

**Ni—nickel (chemical symbol)**

**NIAM—Natural (Language) Information Analysis Methodology**

**NIBA—National Indian Business Association**

**Ni-Cad or nicad—nickel-cadmium**

**Ni-Cr-P—nickel-chromium-phosphorous**

**NIDM—NMCC information for decision makers**

**NIDS—1. NMCS information display system  
2. NATO intrusion detection system**

**NIFFTE—noncooperative, identify friend or foe technology evaluation**

**NIH—National Institute of Health**

**NIHL—noise-induced hearing loss**

**NII—National Information Infrastructure**

**NIIS—National Information Infrastructure Superhighway**

**NIIT—National Information Infrastructure Testbed**

**NIJ—National Institute of Justice**

**NIM—nuclear incident monitor**

**NIOSH—National Institute of Occupational Safety and Health**

**NIPDE—National Initiative for Product Data Exchange**

**NIS—New Independent States (former Soviet Republics)**

**NISC—Naval Intelligence Support Center**

**NISDN—NATO integrated services digital network**

**NISP—National Industrial Security Program**

**NIST—National Institute of Standards and Technology (or Testing) (formerly National Bureau of Standards: NBS)**

**NITF—national imagery transmission format**

**NKEW—nuclear kinetic energy weapon**

**NLO—Naval Liaison Organization**

**NLRA—National Labor Relations Act**

**NLRB—National Labor Relations Board**

**NLT—not later than**

**NLU—normal latch up**

**NLW—nonlethal weapon**

**NM—does not meet required performance**

**nm—nanometer**

**N/m<sup>2</sup>—newton per square meter**

**NûM—newton meter**

**NMAB—National Materials Advisory Board**

**NMAS—nuclear material accountability system**

**NMC—National Microelectronics Center (SNL)**

**NMCC—National Military Command Center**

**NMCI—National Military Intelligence Center**

**NMCS—National Military Command System**

**NMED—1. New Mexico Environmental Department 2. New Mexico Educational Development**

**NMEI—New Mexico Environmental Institute**

**NMERI—1. New Mexico Energy Research Institute 2. New Mexico Engineering Research Institute**

**NMFAC—New Mexico (site-wide) facilities (and maintenance)**

**NMFT—new materiel flight test**

**NMHRC—New Mexico Human Rights Commission**

**nmi—nautical mile**

**NMI—Nuclear Materials, Inc.**

**NMIS—1. nuclear material inspection and storage 2. nuclear material identification system**

**NMLT—new materiel laboratory test**

**NM MESA—New Mexico Mathematics Engineering Science Achievement**

**NMMS—nuclear material management system**

**NMMSS—nuclear materials management and safeguards system**

**NMOS—nitrous metal-oxide semiconductor**

**NMP—nuclear materials production**

**NMR—nuclear magnetic resonance**

**NMRDI—New Mexico Research and Development Institute**

**NMRO—Nuclear Monitoring Research Office**

**NMSAS—New Mexico (site-wide) security and safeguards**

**NMSEP—new material and stockpile evaluation plan**

**NMSPE—New Mexico Society of Professional Engineers**

**NMSS—Nuclear Material Safeguards and Security**

**NMST—new material system testing**

**NMSU—New Mexico State University**

**NMTP—National Mechanic Tool Partnership**

**NMUSTR—New Mexico Underground Storage Tank Regulations**

**NMVO—New Mexico Volunteers for the Outdoors**

**NMWQCCR—New Mexico Water Quality Control Commission Regulations**

**NNAPS—night navigation and pilot system**

**NNC—1. National Nuclear Center (Agency responsible for the nuclear facilities of the Republic of Kazakhstan) 2. Non-Nuclear Configuration (Complex)**

**NNF—National Nanofabrication Facility**

**NNK—nonnuclear kill**

**NNT—nonnuclear testing**

**NNTRP—National Nuclear Test Readiness Program**

**NNWSI—Nevada Nuclear Waste Storage Investigation**

**No—nobelium (chemical symbol)**

**NO—1. normally open 2. nitric oxide**

**NOA—notice of availability**

**NOAA—National Oceanographic and Atmospheric Administration**

**NOAEL—non-observed adverse effect level**

**NOAM—nuclear ordnance Air Force materiel**

**NOCM—nuclear ordnance commodity management (or manager)**

**NOCSIM—nitrate-to-oxide conversion simulation (computer code)**

**NOD—notice of deficiency**

**NOF—NORAD Offutt**

**NOHSCP—National Oil and Hazardous Substances Contingency Plan**

**NOI—notice of intent**

**NOIWON—National operations and intelligence watch officer's network**

**nom—nominal**

**NON—notice of noncompliance**

**NONEL—nonelectric**

**NO OP—no operation (computers)**

**NOCM—nuclear ordnance commodity management (or manager)**

**NOP—1. nuclear operations policy 2. Nuclear Ordnance Platoon 3. normal operating procedure**

**NOR—not-OR (computer logic)**

**NORAD—North American Air Defense (Command)**

**NORC—nuclear ordnance record card**

**NORDA—Naval Ocean Research and Development Activity**

**NORESS—Norwegian Regional Seismic Station**

**NORM—naturally occurring radioactive material**

**NORSOC—Nevada Occurrence Reporting System Operations Office**

**NORTHAG—Northern Army Group (NATO)**

**NOS—1. network operating system 2. NATO Office of Security 3. Naval Ocean Systems 4. not otherwise specified**

**NOSC—Naval Ocean Systems Center**

**NOSO—nuclear ordnance supply officer**

**NOSS—nuclear ordnance shipping schedule**

**NOV—notice of violation**



**NOWR—nuclear ordnance war reserve**

**Np—1. neptunium (chemical symbol)  
2. neper (logarithmic ratio)**

**NP—nonproliferation**

**NPAR—Nuclear Plant Aging Research  
(Program)**

**NPB—neutral particle beam**

**NPBW—neutral-particle-beam weapon**

**NPDES—national pollution (or pollutant)  
discharge elimination system**

**NPDWA—National Primary Drinking Water  
Act**

**NPES—nuclear planning and execution  
system**

**NPF—nuclear permission to fire**

**NPG—nuclear planning group**

**NPL—National Priorities List**

**NPN—negative-positive-negative**

**NPP—1. nuclear plot production  
2. nuclear pilot production 3. nuclear power  
plants**

**NPR—new production reactor**

**NPRDS—nuclear plan reliability data system**

**NPRM—Notice of Proposed Rulemaking**

**NPS—1. nuclear power system 2. nuclear  
power supplies**

**NPSS—Nuclear and Plasma Sciences Society**

**NPT—Nonproliferation Treaty; also, Treaty  
on Nonproliferation of Nuclear Weapons:  
TNNW**

**NPTF—nuclear permission to fire**

**NQAA—Nuclear Quality Assurance Agency**

**NQM—National Quality Month**

**NRC—1. Nuclear Regulatory Commission  
2. Newport Research Corporation  
3. National Research Council 4. National  
Response Center 5. non-reusable container**

**NRDA—natural resource damage assessment**

**NRDC—Natural Resources Defense Council**

**NREL—National Renewable Energy  
Laboratory**

**NRF—Naval Reactors Facility**

**NRHC—National Register of Historic Places**

**NRL—Naval Research Laboratory**

**NRR—1. Nuclear Reactor Regulation  
2. noise of reduction rating**

**NRRSI—nonregular recurrent security  
inspector**

**NRS—NDS receiver subsystem**

**NRSA—Norwegian regional seismic array**

**NRT—national response team**

**NRV—nosetip recovery vehicle (parachutes)**

**NRZ—non-return to zero**

**ns—nanosecond (do not use nsec)**

**NS—1. nuclear safety (or security)  
2. nonsurvivable 3. nuclear systems**

**NSA—1. National Security Agency  
2. Nuclear Security Agency**

**NSAC—1. National Security Activities Committee 2. National Security Advisory Committee 3. Nuclear Safety Analysis Center**

**NSAFE—nuclear safety (evaluation)**

**NSC—1. National Security Council  
2. National Space Council 3. National Safety Council**

**NSDD—National Security Decision Directive**

**NSF—1. net square feet 2. National Science Foundation 3. National Strike Force**

**NSI—1. national security information  
2. nuclear surety inspection**

**NSIC—Nuclear Safety Information Center**

**NSL—1. National Storage Laboratory  
2. nuclear surety link**

**NSLS—National Synchrotron Light Source**

**NSM—nuclear strike message**

**NSNF—nonstrategic nuclear force**

**NSO—network security officer**

**NSPE—National Society of Professional Engineers**

**NSPI—National Society for Performance and Instruction**

**NSPS—new source performance standards**

**NSRDC—Naval Ship Research and Development Center**

**NSS—1. national stockpile site  
2. National Seismic Station 3. nuclear safeguards and security**

**NSSS—nuclear steam supply system**

**NSTEP—National Small-business Technology Exchange Program**

**NSTTF—National Solar Thermal Test Facility**

**NSU—negotiations support unit**

**NSWC—Naval Systems Weapons Center**

**NSWG—nuclear safety working group**

**NSWSES—Naval Ships Weapons Systems Engineering Station**

**NSZ—national sacrifice zone (Rocky Flats)**

**nt—nit (luminance)**

**NTA—nitiloriacetic acid**

**ntc—negative temperature coefficient**

**NTC—National Training Center (Fort Irwin, CA)**

**NTDS—Naval tactical data system**

**NTE—naval test and evaluation**

**NTI—national technology initiative**

**NTIK—nontechnical instrumentation kit**

**NTIS—national technical information service (or system)**

**NTM—national technical means**

**NTNCWS—non-transient, non- community water system**

**ntp—normal temperature and pressure**

**NTP—national transuranic (waste) program**

**NTPI—Navy Technical Proficiency Inspection**

**NTRB—Nuclear Technology Reference Book**

**NTS—Nevada Test Site**

**NTSB—National Transportation Safety Board**

**NTSC—1. National Television Standards (or System) Committee 2. National Transportation Systems Center**

**NTSO—Nevada Test Site Office**

**NTU—1. nephelometric turbidity units  
2. National Technological University**

**NTUA—Navajo Tribal Utility Authority (Fort Defiance, Arizona)**

**NUC—nuclear**

**NUCSLU—nuclear station logic unit**

**NUCWA—nuclear weapons accounting (system)**

**NUDET—nuclear detonation (and detection)**

**NUFAC—Nuclear Facilities (Resource Center)**

**NUMARC—Nuclear Management Resources Council**

**NuPac—Nuclear Packaging, Inc.**

**NUREG—A number issued for an NRC document**

**NUSC—Naval Underwater Systems Center**

**NV—Nevada Field Office (DOE) (see NVO)**

**NVA—North Vietnamese Army**

**NVD—1. nonviolent disablement 2. night-vision device**

**NVEOL—Night-Vision and ElectroOptical Laboratory**

**NVI—new ventures initiative**

**NVO—Nevada Field Office (DOE); now NV**

**nW—nanowatt**

**NW—nuclear weapon**

**NWAI—nuclear weapons acceptance inspection**

**NWC—1. Naval Weapons Center  
2. Nuclear Weapons Complex 3. Nuclear Weapons Council**

**NWCSC—Nuclear Weapons Council Standing Committee**

**NWCT—nuclear weapons critical technologies**

**NWC/WSC—Nuclear Weapons Council/Weapons Safety Committee**

**NWD—1. nuclear weapon data 2. nuclear weapon design**

**NWDG—nuclear weapon development guidance**

**NWEF—Naval Weapons Evaluation Facility (Kirtland Air Force Base)**

**NWER—nuclear weapon effects research**

**NWET—nuclear weapon effects test**

**NWIU—nuclear weapon interface unit**

**NWLE—nuclear weapons liaison element**

**NWM—nuclear weapon (or warhead) management**

**NWMP—nuclear waste management program**

**NWP—nuclear weapon production**

**NWPA—Nuclear Waste Policy Act**

**NWRP—nuclear weapons release procedures**

**NWRS—1. nuclear weapon response system  
2. nuclear weapon requirement study**

**NWRT—nuclear waste repository technology**

**NWSB—Nuclear Warfare Status Branch**

**NWSM—Nuclear Weapons Stockpile Memorandum**

**NWSS—1. nuclear weapon subsystem  
2. nuclear weapon system safety**

**NWSSG—nuclear weapon systems safety group**

**NWSSTG—nuclear weapon subsystem test group**

**NWSSTP—nuclear weapon subsystem test plan**

**NWTI—nuclear weapons technical inspection**

**NWTS—nuclear waste terminal storage**

**NWTSHEG—nuclear weapon transportation safety hazard evaluation group**

## **O**

**Ω—ohm**

**O—oxygen (chemical symbol)**

**OA—office automation**

**OAA—office administrative assistant**

**OAC—Office of Arms Control**

**OACNP—Office of Arms Control and Non-Proliferation (Systems)**

**OAD—1. ordnance available date  
2. operational availability date**

**OADR—originating agency's determination (is) required**

**OALD—off-axis laser detection**

**OAP—Optical Aging Products (an optical measuring system)**

**OAR—operation assessment and readiness**

**OAS—1. Office Automation Subcommittee 2. offensive avionics system**

**OASDC3I—Office of the Assistant Secretary of Defense Communications, Command, Control, and Intelligence**

**OASPL—overall sound pressure level**

**OAU—Origin of African Unity**

**OAWG—office automation working group (obsolete; now laboratory information network: LINK)**

**OBA—operating basis accident**

**OBD—on-base disposal**

**OBES—Office of Basic Energy Sciences**

**OB/OD—open burning/open detonation**

**obs—observed**

**OC—1. open circle 2. outside circumference  
3. outer chuck  
4. originator controlled**

**OCAW—oil, chemical, and atomic workers**

**OCB—oil circuit breaker**

**OCC—Office of Chief Counsel (DOE)**

**OCE—operations control element (or equipment)**

**OCI—organizational conflicts of interest**

**OCM—operational change memo**

**OCN—organization change notice**

**OCONUS—outside contiguous United States**

**OCR—1. operational change report  
2. optical character recognition**

**OCRWM—Office of Civilian Radioactive  
Waste Management**

**OCS—1. outer continental shelf  
2. on-scene commander**

**OCSA—order compliance self-assessment**

**OCSAP—order compliance self-assessment  
program**

**OCT—quality coordinator team**

**OCV—1. overcharged voltage 2. outer  
containment vessel**

**OD—1. optical density 2. outside diameter 3.  
Office of Declassification**

**ODC—ozone-depleting chemical (or  
compound)**

**ODE—ordinary differential equation**

**ODES—operational deployment experiment  
simulator**

**ODF—ODES development flight**

**ODS—ozone-depleting substances**

**ODTX—one-dimensional time to explosion**

**Oe—oersted (do not use this unit of magnetic  
field flux)**

**OE—1. optical engineering 2. order expert 3.  
optoelectronics**

**OEA—Office of External Affairs (DOE)**

**OEC—Optoelectronics Center**

**OECD—Office for Economic Cooperation and  
Development (nuclear-related scientific and  
technical software)**

**OEM—original equipment manufacturer**

**OEMT—operational emergency management  
team**

**OEPO—Office of Emergency Plans and  
Operations**

**OER—operating experience report**

**OESH—Office of Environment, Safety, and  
Health (DOE/AL)**

**OEST—Office of Energy, Science, and  
Technology (DOE)**

**OET—operational employment test**

**OFA—other federal agencies**

**OFB—output feedback**

**OFC—Organizational Facility Coordinator**

**OFCCP—Office of Federal Contract  
Compliance Program**

**OFFE—Office of Federal Facilities  
Enforcement**

**OFP—operational flight program**

**OFR—office furniture request**

**OFS—operational flight software**

**OGS—Overseas Ground Station**

**OH—outer housing**

**OHE—occupational health examiner**

**OHEG—organization and human  
effectiveness group**

**OHL—over high limit**

**OHMTADS—oil and hazardous material technical assistance data system**

**OI—operating (or office) instruction**

**O&I—operation and inspection**

**OIDA—Optoelectronics Industry Development Association**

**OIDT—operator-interactive display terminal**

**OIE—Office of Inspection and Enforcement**

**OIG—1. operations interface group  
2. Office of the Inspector General**

**OIS—ordnance initiation set**

**OISA—Office of International Security Affairs**

**OIT—Office of Industrial Technologies**

**OJCS—Organization of the Joint Chiefs of Staff**

**OJT—on-the-job training**

**OL—operating location (or limit)**

**OLE—object linking and embedding**

**OM—occurrence management**

**O&M—operation and maintenance**

**OMA—1. Office of Military Application (DOE) 2. Office of Management and Administration (DOE)**

**OMB—Office of Management and Budget**

**OMG—Operational Maneuver Group (Soviet)**

**OMI—Office of Medical Investigator**

**ONDP—Office of National Defense Programs (DOE)**

**ONOP—off-normal operating procedure**

**ONPG—operations nuclear planning group**

**ONR—Office of Naval Research**

**ONT—Office of Naval Technology**

**ONWI—Office of Nuclear Waste Isolation (Battelle Memorial Institute)**

**OOH—out of hours**

**OOL—out of limit**

**OOPS—object-oriented programs symbols (computers)**

**OOS—Office of Operational Safety (DOE HQ)**

**OOSS—overseas operational storage site**

**OP—operating procedure**

**OPA—Office of Planning and Analysis**

**OPAC—Operations (Office for) Arms Control**

**OpAmp—operational amplifier**

**OPCC—Offutt Processing and Correlation Center**

**op. cit.—opere citato, in the work cited**

**OPCW—American Translation: International Chemical Weapon Inspectorate**

**OPD—operational plan document**

**OPDAR—optical direction and ranging**

**OPEC—1. Organization of Petroleum Exporting Countries 2. On-Premises Educational Committee**

**OPEIU—Office and Professional Employees International Union**

**OPD—operational plan document**

**OP-FTIR—open path Fourier transform infrared spectrometer**

**OPM—1. Office Procedures Manual (rescinded at Sandia, NM as of April 1995) 2. Operations Performance Monitor**

**OPMODEL—operational model**

**OPNAV—Office of the Chief of Naval Operations**

**OPORD—operational order**

**Ops—operations**

**OPSEC—operations security**

**OPSEL—option select**

**OPTASM—optical target signature model**

**OPTEVFOR—Operational Test and Evaluation Force (Navy)**

**OPX—off-premise extension**

**OQP—organizational quality plan**

**OR—1. Oak Ridge 2. occurrence report 3. operations requirements 3. operational readiness**

**Oralloy—original meaning: Oak Ridge alloy**

**ORISE—Oak Ridge Institute for Science and Education**

**ORLA—optimum repair-level analysis**

**ORM—other required material**

**ORNL—Oak Ridge National Laboratory**

**ORO—Oak Ridge Operations (DOE)**

**ORPS—occurrence reporting and processing system**

**ORR—operation readiness review**

**ORRIBLE—Oak Ridge reactor inlet blockage code (computers)**

**ORS—organization reconstruction system**

**ORTA—Office of Research and Technology Applications**

**ORV—off-road vehicle**

**Os—osmium (chemical symbol)**

**OS—1. operating system 2. office of space**

**OSA—Optical Society of America**

**OSAG—office systems advisory group**

**OSAP—operational survivability assessment program**

**OSC—1. on-scene commander 2. oscilloscope 3. Office of Scientific Computing (DOE)**

**OSD—Office of the Secretary of Defense**

**OSE—Office of Security Evaluations**

**OSHA—1. Occupational Safety and Health Administration 2. Occupational Safety and Health Act**

**OSHWPP—occupational safety and health worker protection plan (or process)**

**OSI—open systems interconnect**

**OSIA—on-site inspection agency**

**OSL—optically stimulated luminescence (see COSL)**

**OSM—on-site monitor**

**OSNP—Office of Space Nuclear Projects (DOE)**

**OSO—offensive systems officer**

**OSP—1. operational safety procedure  
2. Office of Special Projects (DOE)**

**OSR—1. operational safety requirements  
2. operational safety report**

**OSS—1. Office of Safeguards and Security (DOE) 2. operational storage site 3. operating system software**

**OSSP—outstanding student summer program**

**OST—operational suitability test**

**OSTD—off-site technical director**

**OSTI—Office of Scientific and Technical Information (DOE)**

**OSTP—Office of Science and Technology Policy**

**OSWER—Office of Solid Waste and Emergency Response**

**OT—operational test**

**OTA—Office of Technology Assistant**

**OTD—Office of Technology Development**

**OTDR—optical time-domain reflectometry**

**OT&E—operational test and evaluation**

**OTEA—operational test and evaluation agency**

**OTEC—ocean thermal energy conversion**

**OTF—optical transfer function**

**OTH—over the horizon**

**OU—operable unit**

**OUO—official use only**

**OV—1. Office Vision 2. organic vapor**

**OVA—organic vapor analyzer**

**OWBPA—Older Worker Benefits Protection Act**

**OWI—Office of Waste Isolation (now Office of Nuclear Waste Isolation)**

**Oy—orr alloy (35U)**

**OYOC—one-year-on-campus**

**oz—ounce**

## **P**

**p—pico- (a prefix indicating 10<sup>-12</sup>)**

**p—1. proton 2. page (plural is pp)**

**P—1. peta- (a prefix indicating 10<sup>15</sup>) (Not to be used for poise in dynamic viscosity) 2. precision 3. phosphorous (chemical symbol) 4. Pershing Missile (as in Pershing II or PII) 5. property 6. pressure**

**Pa—1. protactinium (chemical symbol) 2. pascal (unit of pressure or stress)**

**pA—picoampere**

**PA—1. power amplifier 2. prearmed 3. public address 4. pressure adviser 5. protected area 6. production agency 7. position analyzer 8. progress assessment 9. preliminary assessment**

**PAA—1. primary aircraft authorization 2. procurement action approval**

**PAAA—Price Anderson Amendments Act**



**PAAC—program analysis adaptable control**

**PAB—1. Project Advisory Board  
2. Packaging Advisory Board**

**PABX—private automatic branch exchange**

**PAC—1. Pershing airborne computer  
2. Physical Acoustics Corporation**

**PACA—Professional Aerospace Contractor's Association**

**PACAF—Pacific Air Force**

**PACCS—post-attack command control system**

**PACE—plant and capital equipment**

**PACES—pressurized-air-combustor exhaust simulator**

**PACOM—Pacific Command**

**PACPADS—Portsmouth alarm communication processing and display system**

**PACX—Private Automatic Computer Exchange**

**PAD—1. procurement action documentation  
2. Pajarito dynamics (computers)**

**PADAR—passive detection and ranging**

**PADS—procurement assistance data system**

**PAG—protective action guide**

**PAGOSA—a data-parallel version of the shock-wave physics code: MESA**

**PAHR—postaccident heat removal**

**PAIR—powered air purifying respirator**

**PAL—1. permissive action link 2. phase alternate line 3. programmable array logic 4.**

**protective action levels  
5. program area leader**

**PAM—1. pulse-amplitude modulation  
2. prearm monitor 3. pulse-accumulation module**

**PAMTRAK or Pam Trak—personnel and material tracking (system)**

**PAN—1. peroxyacetylnitrate 2. percussion actuated nonelectric (disrupter)**

**PAO—1. Pinellas Area Office (DOE)  
2. public affairs officer**

**PAP—1. performance action plan  
2. personnel assurance program (or plan)**

**PAPS—permissive arming and protection system**

**par—1. paragraph 2. parallel  
3. parenthesis**

**PARCC—precision, accuracy, representativeness, completeness, and comparability**

**PARCS—perimeter acquisition radar (attack) characterization system**

**PARD—Protect as Restricted Data (Note: Use PARD only with the permission of the Alb. Computer Security Site Manager.)**

**Par-Q—physical activity readiness questionnaire**

**PAS—1. primary alerting system  
2. protective aircraft shelter (see HAS)**

**PASC—probability of adversary sequence completion**

**PASEM—passive environmental monitor**

**PA/SI—preliminary assessment/site investigation**

**PASS**—1. personnel access security system 2. personnel administrative support system

**PASTA**—program for application to stress and thermal analysis (computer code)

**PASTF**—Photovoltaic Advanced Systems Test Facility

**PAT**—1. progress assessment team  
2. plutonium air-transportable (container)

**PATB**—triaminotrinitrobenzene

**PATRAM**—package and transport of radioactive material

**PATRICIA**—practical algorithm to retrieve information coded in alphanumeric (computer program)

**PATS**—prototype automatic target screener

**PAVE PAWS**—precision acquisition vehicle entry phased array warning system

**PAVING**—a mesh-generation software algorithm

**PAWS**—portable acoustic wave system

**Pb**—lead (chemical symbol)

**PB**—pulse battery

**PBE**—prompt burst energetics

**PBFA**—particle-beam fusion accelerator (PBFA II is the world's most powerful ion source)

**PBFTU**—prebuilt flight test unit

**PBGC**—Pension Benefits Guaranty Corporation

**PBPT**—pixel-by-pixel transfer]

**PBV**—post-boost vehicle

**PBW**—parts by weight

**PBX**—1. plastic bonded explosive  
2. private branch exchange (teletype)  
3. public branch exchange

**PC**—1. printed circuit 2. polymer concrete  
3. photoconductive 4. port contenders  
5. personal computer 6. PAL controller  
7. physician's certificate 8. protective clothing

**P-C**—plano-convex

**PCA**—physical configuration audit

**PCAP**—process capability assurance program

**PCB**—1. printed circuit board  
2. polychlorinated biphenyl 3. personal computer board

**PCC**—1. Platoon Control Center  
2. percent correct classification 3. Policy Coordinating Committee 4. Pressure Certification Committee 5. primary component cooling

**PC-CAPRS**—personal computer compensation and performance review system

**PCCS**—ported coaxial cable sensor

**PCD**—1. program control document  
2. physician's certificate of disability

**PC/DAS**—personal computer/document accountability system

**PCE**—1. PAL control equipment 2. perchloroethylene

**P&CE**—plant and capital equipment

**pcf**—pounds per cubic foot; preferred: lb/ft<sup>3</sup>

**PCI**—1. permanent complete incapacitation 2. pellet-clad interaction

**PCL**—positive control launch

**PCM**—1. pulse code modulation 2. pulse count modulation 3. pulse colliding mode (locked)

**PCMDI**—program for climate modeling, diagnosis, and intercomparison

**PCN**—polyurethane-coated nylon

**P-Code**—precision code

**PCP**—product change proposal

**PCR**—program change request

**PCS**—1. project (or property) control system  
2. power conversion system  
3. project control specialist

**PCSD**—programmable communications security device

**PC/SPR**—portable computer/seal pattern reader

**pct**—percent (with a number, the symbol % is preferred: 15%)

**PCT**—1. peak clad temperature 2. process certification team

**PCTAP**—positive control turnaround point

**PCTH**—a parallel shockwave physics code

**Pd**—palladium (chemical symbol)

**PD**—1. pulse duration 2. pulse doppler  
3. potential difference 4. performance decrement 5. program direction

**PD**—probability of detection; sometimes written as Pd

**P&D**—provide and describe

**PDA**—principal development activity

**PDAC**—Photovoltaic Design Assistance Center

**PDB**—1. power distribution box 2. plant damage bin

**PDC**—1. power drive controller 2. polycrystalline diamond compact

**PDD**—project data document

**PDE**—partial differential equation

**PDF**—probability density function

**PDI**—1. powerdown interrupt 2. project data interface

**pdl**—poundal

**PDL**—1. Program Design Language  
2. Process Development Laboratory (obsolete; now the Advanced Manufacturing Processes Laboratory)

**PDM**—1. pulse duration modulation  
2. portable data module 3. power density monitor 4. product data management

**PDME**—portable data module emulator

**PDO**—process development order

**PDP**—1. programmed data processor  
2. preferred dentist program

**PDR**—1. preliminary design review  
2. prototype design review

**PDS**—1. protected distribution system  
2. personnel data sheet 3. processing and display system

**PDSP**—plutonium-dispersed studies program

**PDU**—process demonstration (or development) unit

**PDW**—phosphate development works

**PDWG**—program development working group

**pe**—probable error

**PE**—1. pyroelectric 2. polyethylene  
3. professional engineering

**P&E**—personnel and education

**PEARL**—personnel expertise and resource listing

**PECS**—probabilistic evaluation of cladding stress (computers)

**PECVP**—plasma-enhanced chemical vapor deposition

**PED**—1. photoelectric detector  
2. professional experience date (MLS)

**PEEK**—polyetheretherketone

**PEGA**—parameter estimation with genetic algorithms

**PEIS**—Programmatic Environment Impact Statement

**PEL**—1. property on external loan  
2. permissible exposure limit (or level)

**PEL/MEL**—property on external loan/material on external loan

**PEM**—1. passive environmental monitors  
2. production evaluation missile

**PENAIDS**—penetration aids

**PEO**—program executive officer

**PEP**—performance enrichment program

**PEPCI**—providing emergency presidential communications interface

**PEPER**—propellants, explosives, and pyrotechnics evaluation and reapplication

**PEPS**—photovoltaic electric power system

**PERD**—professional experience in research and development (MTS)

**PERMITS**—plant engineering management information and tracking system

**PERSEP**—Pershing survivability evaluation program

**PERT**—program evaluation review technique (computers)

**PES**—plant electrical system

**PET**—positron emission tomography

**PETC**—Pittsburgh Energy Technology Center

**PETN**—pentaerythritol tetranitrate (explosive)

**PEV**—pyroelectric voltage (array)

**PEVN**—polyethylene co-vinyl nitrate

**pF**—picofarad

**PF**—1. protection factor 2. power factor

**PFA**—power FORTRAN accelerator

**PFBC**—pressurized fluidized-bed combustion

**PFC**—plasma facing component

**PFG**—Precision Fabrics Group, Inc.

**PDW**—phosphate development works

**PFM**—pulse-frequency modulation

**PFMAINT**—permanent file maintenance (computers)

**pfm/cw**—pulse frequency modulated/continuous wave

**PFN**—1. pulse-forming network 2. prompt fission neutron

**PFRP**—process to further reduce pathogen

**PFS**—protected firing station

**PG**—process gas

**PGA**—1. pin grid array 2. phase gradient autofocus

**PGM**—precision-guided munition

**PGP**—professional graphics producer

**PGS**—perimeter guard station

**ph**—1. phase 2. phot (illuminance; use lux instead)

**pH**—potential of hydrogen

**PHA**—preliminary hazard assessment

**PHC**—1. preferred health care  
2. preliminary hazard classification

**Ph.D.**—Doctor of Philosophy

**PERMEX**—pulsed high-energy radiographic machine-emitting x-rays

**PHTS**—primary heat transport system

**PHYST**—pit hydriding safety test

**PI**—1. principal investigator 2. probability of intercept (see PK) 3. purchasing instruction  
4. performance indicator  
5. probability of interruption 6. product improvement 7. pressure installer

**PIa**—Pershing 1a (missile system)

**PIA**—1. peripheral interface adapter (computers) 2. parallel interface adapter

**PIAT**—public information assistance team

**PIBAL**—pilot balloon

**PIC**—1. polymer-impregnated concrete  
2. polyethylene-insulated conductor  
3. Personnel Information Center  
4. plastic-insulated cable 5. PINS information component

**PICS**—property inventory control system

**PID**—1. personnel identification device  
2. pulse-integrating detector

**P&ID**—piping and instrument drawing

**PIDAS**—perimeter intrusion detection and assessment system

**PIE**—1. post-irradiation examination  
2. partners in education

**PIF**—productivity investment fund

**PIFITE**—pipe flooding transient (computers)

**PIM**—pulse interval modulation

**PIMS**—1. passive infrared motion sensor 2. purchasing information management system

**PIN**—1. personal identification number  
2. P-type, intrinsic N-type

**PINEX**—pin experiment

**PING**—pulsed interrogation neutron and gamma (methodology)

**PINPAL**—physical inventory pallet

**PINS**—proliferation information network system

**PINCA**—parallel integrated computer analysis

**PIO**—1. programmed input/output  
2. peripheral input/output

**PIOCS**—physical input/output control system (see LIOCS)

**PIP**—1. peripheral interchange program 2. pre-arm in progress 3. programmable image processor 4. pulsed integrating pendulum 5. public involvement program

**PIPER**—pulse-intense plasma for exploratory research

**PIR**—passive infrared

**PIV**—positive identification verifier

**PIWG**—public involvement working group

**pixel**—picture element

**PJA**—proper job analysis

**PJI**—proper job instruction

**Pk or PK**—probability of kill (see PI)

**PKE**—process knowledge evaluation

**pkg**—package

**Pl**—poiseuille (viscosity)

**PL**—path length

**PLBR**—prototype large breeder reactor

**PLD**—programmable logic device

**PLMS**—pylon launcher missile simulator

**PLMSCP**—pylon launcher missile simulator computer program

**PLRS**—position locating and reporting system

**PLS**—prelaunch survivability

**PLUTO**—prediction of molten-fuel behavior under transient overpower conditions (computers)

**PLYWD**—precision low yield weapon design (Air Force)

**PLZT**—lead lanthanum zirconate titanate

**p.m.**—post meridiem (after noon)

**Pm**—promethium (chemical symbol)

**PM**—1. phase modulation 2. pulse modulation 3. photomultiplier 4. preventive maintenance 5. project manager 6. particulate matter

**PMA**—primary management area

**PMATS**—property management assets tracking system

**PMCT**—PAL management control team (or test)

**PMDI**—polymeric diisocyanate

**PMF**—1. performance management form 2. probable maximum flood

**PMI**—1. Project Management Institute 2. probable measurement inaccuracy

**PMM**—pulse mode multiplex

**PMMA**—polymethyl methacrylate

**PMP**—1. parts, materials, and processes 2. project (or performance) management plan

**PMR**—proton magnetic resonance

**PMRF**—Pacific Missile Range Facility (Navy)

**PMS**—1. property management system 2. program management system 3. planned maintenance system

**PMT**—1. Polymicro Technologies 2. process (or performance) management team 3. photo-multiplier tube

**PMTF**—Plasma Materials Test Facility

**PMV**—PAL material verifier

**P/N**—part number (sometimes written as PN)

**PNA**—pulse neutron activation

**PNAF**—prime nuclear airlift force

**PNC**—Power (Reactor and) Nuclear (Fuel Development) Corporation

**PNE**—peaceful nuclear explosion

**PNET**—Peaceful Nuclear Explosions Treaty

**PNGV**—Partnership for a New Generation of Vehicles

**PNL**—Pacific Northwest Laboratory

**PNP**—positive-negative-positive (electronics circuits)

**PNS**—Parabolized Navier-Stokes (computer code)

**Po**—polonium (chemical symbol)

**PO**—purchase order

**POC**—1. point of contact 2. proof of concept

**POCC**—Plant Operations Control Center

**POC/ET**—proof of concept/experimental testbed

**POG**—project officers group

**POINTER**—particle orientation interferometer

**POLICE**—protecting our lives, institutions, communities, and enterprises

**POM**—program objective memorandum

**PONC**—price of nonconformance

**POP**—1. period of performance 2. plan of operations and practices

**POPS**—probabilistic evaluation of transient overpower cladding stress (computers)

**PORPLUG**—porous plug heat-generating blockage (computers)

**pos**—positive

**POS**—point of sale

**Post-IOC**—post-initial operational capability

**POTAS**—program for technical assistance (to IAEA) safeguards

**POTU**—Pershing operational test unit

**POTW**—publicly owned treatment work

**pp**—1. pages 2. past participle

**PP**—1. peak to peak 2. pilot production  
3. Pinellas Plant (formerly GENDD)

**PPA**—property protection area

**ppb**—parts per billion

**PPBS**—planning, programming and budget system

**PPC**—production process characterization

**PPCM**—portal perimeter continuous monitoring

**P&PD**—production and planning directive

**PPE**—1. personnel protection equipment  
2. PAVE PAWS East

**PPI**—process prove-in

**PPL**—preferred parts list

**P-Plan**—programming plan

**ppm**—parts per million

**PPM—pulse position (or pulse phase) modulation**

**PPMO—Pershing Project Management Office**

**P&PO—planning and programming order**

**PPPD—pilot-production program definition**

**PPPL—Princeton Plasma Physics Laboratory**

**PPRC—Pulsed-Power Research Center**

**pps—pulse per second**

**PPS—1. plant protection system  
2. plutonium protection system  
3. physical protection system  
4. preliminary planning schedule**

**PPSC—Pulsed Power Safety Committee**

**PPSE—PAVE PAWS Southeast**

**PPSW—PAVE PAWS Southwest**

**ppt—parts per thousand**

**PPT—performance prototype trough**

**PP/TMS—pilot production/tool-made sample**

**PPW—PAVE PAWS West**

**PQ—product qualification**

**PQA—1. President's Quality Award  
2. preliminary quality assessment**

**PQMI—process quality management and improvement**

**PQT—process qualification team (obsolete; now qualification evaluation team)**

**Pr—praseodymium (chemical symbol)**

**PR—1. purchase requisition 2. public relations 3. personnel representative  
4. proprietary (information)**

**PRA—1. probabilistic risk assessment (or analysis) 2. programmatic risk assessment 3. PAL recode adapter**

**PRAI—PAL recode adapter interface**

**PRAM—parameter RAM**

**PRC—1. programmatic risk classification  
2. People's Republic of China**

**PRCF—Plutonium Recycle Critical Facility**

**PRCR—purchase requisition/change requisition**

**PRD—1. primary responsible department  
2. program requirements document**

**PRDA—program research and development announcement**

**PREP—production risk evaluation program**

**PRESS-CM—pit reuse for enhanced safety and security cruise missile**

**PRF—pulse repetition frequency**

**PRI—Physical Research Instrumentation, Inc.**

**pri—primary**

**PRISM—physically reasonable infrared signature model**

**PRLS—portable, reconfigurable line sensor**

**PRO—primary responsible organization**

**PROM—programmable read-only memory**

**PROMPT—allows fast computation of a robotic system manipulator's movement to avoid collision**

**PRONTO—SNL mechanic code (dynamic) (See SANTOS)**



**PROTEC**—programmable ordnance technology

**PROVCORPSV**—Provisional Corps, Vietnam

**PRP**—1. pulse repetition period  
2. personnel reliability program

**PRR**—1. pulse repetition rate 2. protective response recommendation

**PRRS**—penetration resistance rating system

**PRS**—1. personnel reporting system  
2. plasma radiation source

**PRSC**—1. Purchase Requisition Service Center 2. post removal site control

**PRT**—platinum resistive thermometer

**PRVM**—peak-reading voltmeter

**ps**—picosecond

**PS**—1. product (or primary) specification (drawing number) 2. primary specification

**P&S**—1. production and systems  
2. production and surveillance

**PSA**—1. Presidential Special Aircraft (Andrews AFB, MD) 2. power switching assembly 3. PAL switch adapter  
4. preliminary safety analysis 5. project support agreement

**PSAC**—Pressure Safety Advisory Committee

**PSAR**—preliminary safety analysis report

**PSC**—1. protective sample container  
2. Principal Subordinate Command (NATO)  
3. pressure safety committee

**PSD**—prevention of significant deterioration

**psf**—pounds per square foot; also lb/ft<sup>2</sup>

**psi**—pounds per square inch; also lb/in<sup>2</sup>

**PSI**—1. personnel security interview  
2. Pollutant Standards Index

**psia**—psi absolute

**psig**—psi gauge

**PSK**—phase-shift keying (see FSK)

**PSM**—program support manager

**PSN**—1. prototype secure network (computers) 2. proper shipping name  
3. power systems modernization

**PSO**—program senior officials

**PSP**—Pension Security Plan

**PSPM**—Pressure Safety Practices Manual

**PSR**—1. program status review  
2. perfectly stirred reactor

**PSS**—1. pressure-sensitive seals  
2. perimeter surveillance system  
3. probabilistic safety study

**PSU**—1. program storage unit 2. portable surveillance unit

**PSZT**—lead tin zirconium titanate

**PT**—1. production type 2. Pigmy Trilock (connectors) 3. point 4. product tester (as in PT3003) 5. property transfer

**P&T**—packaging and transporting

**PTC**—Pentagon Telecommunications Center

**PTD**—product test data

**PTF**—phase transfer function

**PTFE**—polytetrafluorethylene

**PTM**—1. pulse time modulation (or multiplex)  
2. pan/tilt mount

**PTP**—peak to peak (ratio)

**PTR**—pressure test record

**P&TSC**—packaging and transporting safety committee

**PTT**—Postal Telephone and Telegraph

**PTTSA**—pre-tiger team self-assessment

**PTV**—parachute test vehicle

**Pu**—plutonium (chemical symbol)

**Pub**—publication

**PUC**—PAL unit card

**PUP**—parent unit parts

**PUPS**—pick-up points

**PUREX**—plutonium-uranium reduction extraction

**PV**—photovoltaic(s)

**PVA**—photovoltaic array

**PVDF**—polyvinylidene fluoride

**PVE**—preset/verify/execute

**PV&KD**—pressure volume and constant X displacement

**PVT**—pressure-volume-temperature

**PVTB**—productivity validation testbed

**pW** —picowatt

**PW**—1. pulse width 2. process water

**PWA**—1. process waste assessment  
2. printed wiring assembly

**PWB**—printed wiring board

**PWC**—password control

**PWDR**—preliminary weapon development report

**PWG**—prioritization working group

**PWGM**—process water gamma monitor

**PWM**—pulse-width modulation

**PWR**—pressurized-water reactor

**PWT**—parachute wind tunnel

**PX**—Pantex Plant

**PXD**—manganin wire pressure transducer

**Pz**—pi ze (pressure)

**PZT**—Pb (lead) zirconate titanate

## **Q**

**Q**—quality (one of the five corporate values; see I, L, R, and T)

**QA**—quality assurance

**QAA**—Quality Assurance Agency (DOE)

**QAER**—qualification acceptance equipment release

**QAIA**—Quality Assurance Inspection Agency (DOE)

**QAIP**—quality assurance inspection procedures

**QAM**—Quality Assurance Manual

**QAP**—quality assurance procedure (or program)

**QAPMT—Quality Awareness Process Management Team**

**QAPP—Quality Assurance Project Plan**

**QAPPC—Quality Assurance Program Planning Committee**

**QAR—quality action request**

**QASL—Quality Assurance, Sandia (National) Laboratories**

**QAST—quality assurance service test**

**QAT—quality action team**

**QATI—quality assurance test instructions**

**QAVI—quality assurance verification instructions**

**QBE—query by example**

**QBF—query by form**

**QC—1. quality control 2. quality circle 3. quality criteria 4. quality coordinator**

**QCD—quantum electrodynamics**

**QCR—quality control/reliability**

**QCT—quality coordinator team**

**Q/D—quantity/distance**

**QDA—1. quartz-based digital accelerometer 2. qualified designated alternate**

**QED—quantum electrodynamics**

**QEP—quality engineering project**

**QER—qualification (or quality) evaluation release**

**QERD—qualification evaluation research for dismantlement**

**QEST—quality evaluation systems tester**

**QET—qualification evaluation team (formerly process qualification team)**

**QFD—quality function deployment**

**QIC—quality inspection control**

**QIP—quality improvement project**

**QIPM—quality improvement process management**

**QIT—quality improvement team**

**QLFT—qualitative fit test**

**QLORD—quantum-limited optical resonance detector**

**Qm—quartermaster**

**QMC—quantum Monte Carlo (numerical simulation method)**

**QML—qualified manufacturers' list**

**QMS—quality management system**

**QNFT—quantitative fit test**

**QNOW—quality news on weapons**

**QP—1. quartz phenolic 2. quality plan 3. quick pay**

**QPL—qualified parts list**

**QRA—1. quick reaction alert 2. qualitative risk analysis**

**QS—1. qualification sample 2. quality system**

**QSC—quality steering council**

**QSG—quality support group**

**QSI—Quantum Systems, Inc. (Albuquerque)**

**QSP**—questionnaire for sensitive positions

**qt**—quart

**QTE**—qualification testing evaluation

**qtr**—quarter

**qty**—quantity

**quad**—quadrant

**qual**—qualitative

**QUEST**—quality-enhancement strategies

**QV**—quality verification

**QUIC**—quasi-instantaneous control

**QWL**—quality of work life

## **R**

**r**—radius

**R**—1. roentgen (unit of absorbed radiation dose exposure; see rad) 2. resistance 3. respect (one of the five corporate values; see I, L, Q, and T) 4. radiant (energy hazard)

(**R**—degrees Rankine (e.g., 99(**R**), used in the Rankine temperature scale

**R1, R2**—Range 1, Range 2

**R2**—rewards and recognition

**RA**—Rockwell, “A” scale hardness

**RB**—Rockwell, “B” scale hardness

**RA**—1. relay assembly 2. radiation area 3. risk assessment

**RAAS**—remedial action assessment system

**RAC**—1. Research Advisory Committee 2. radioactive cargo 3. response action contractor

**RACS**—remote access system

**RACT**—reasonable available control technology

**rad**—1. radian (plane angle 2. unit of absorbed radiation dose liberating 100 ergs of energy per gram or  $10^{-2}$  J/kg (supersedes the roentgen)

**RAD**—1. radiation absorbed dose 2. random-access device 3. radioactive

**radar**—radio detection and ranging (originally an acronym but now accepted as a word)

**RADCON**—1. radiation contamination 2. radiation control

**RADEC**—radiation detection capability

**RADEX**—radiation exposure

**RADIAC**—1. radiation detection, indication, and computation

**RADINT**—radar intelligence

**RADM**—Rear Admiral

**Radon transform**—named for J. Radon who invented the inversion in a function-line integral

**RadPro**—radiation protection

**rad/s**—radians per second (preferred over rad/sec)

**RADWASTE**—radioactive (and mixed) waste

**RAE**—Royal Aircraft Establishment

**RAeS**—Royal Aeronautical Society

**RAF**—1. Royal Air Force 2. resistance after fire

**RAISE**—Rural American Indian Science Education

**RAL**—recommended allowance list

**RAM**—1. random-access memory 2. read-and-modify memory (digital controllers) 3. radioactive material 4. RADEC analysis and monitor 5. rocket-assisted mode 6. radar-absorbing (or absorption) material 7. radiation area monitor 8. reliability, availability, and maintainability

**RAMS**—1. remote atmospheric monitoring system 2. radiation area monitor system

**RAN**—restricted access network

**RAP**—1. restricted access program 2. remedial action program

**RAPADS**—rapid (deployment) access delay system

**RAPID**—1. radiation pattern identification 2. retrofit-assisted parachute in-flight delivery

**RAPRENOX**—rapid reduction of nitrogen oxides

**RAS**—1. roof antenna system 2. reactor analysis and safety 3. routine analytical services

**RASER**—radio-frequency amplification by stimulated emission of radiation

**RASLE**—radiating and absorbing shock layer equilibrium

**RASSPVDN**—random sphere (model of) simultaneous particle and vapor deposition

**RATLER**—robotic all-terrain lunar exploration rover

**RATT**—radioteletype

**RB**—1. reentry body 2. rule based

**RBA**—1. reentry body assembly 2. radiological buffer area

**RCB**—retrieval containment building

**RBE**—relative biological effectiveness (of radiation)

**RBFTU**—rebuild flight test unit

**RC**—1. radiochemical 2. reinforcing capability

**R-C**—resistance capacitance

**RCA**—1. root cause analysis 2. Radio Corporation of America

**RCAF**—Royal Canadian Air Force

**RCD**—release circuits disconnect

**R&CG**—Resource and Coordination Group

**RCI**—receipt for classified information

**RCIC**—reactor core isolation cooling

**RCM**—reliability centered maintenance

**RCMS**—removal cost management system

**RCP**—reactor cooling pump

**RCRA**—Resource Conservation and Recovery Act (1976)

**RCS**—1. reactor control system 2. radar cross section 3. reactor coolant system

**RCSC**—radiological and criticality safety committee

**RCSI**—reactor coolant system integrity

**RCSM**—radar cross-section measurement

**RCU—reference control unit**

**RCW—recirculated cooling water**

**rd—rutherford (a unit of the decay rate of radio-active material)**

**RD—1. restricted data 2. remedial design**

**R&D—research and development**

**RDA—Research and Development Associates (DNA subcontractor)**

**RD&A—research, development, and application**

**R to D to A—research to development to application**

**RDD—radiation dispersal device**

**RD&D—research, development, and demonstration**

**RDDT&E—research, development, demonstration, testing, and evaluation**

**RDE—radiation-detection equipment**

**RD&E—research, development, and engineering**

**RDF—radio direction finder**

**RDJTF—Rapid Development Joint Task Force**

**RD/RA—remedial design and remedial action**

**RDRF—receive data register full (computers)**

**RDS—records depository system**

**RDT—reactor development and technology**

**RD&T—research, development, and testing**

**RDT&E—research, development, testing, and evaluation**

**RDU—1. remote data unit 2. RADEC data unit**

**RDX—abbreviation for the explosive cyclomite**

**RE—1. rare-earth 2. real**

**R&E—research and engineering**

**REA—retard airburst**

**REAC/TS—Radiation Emergency Assistance Center/Training Site (Oak Ridge, TN)**

**READ—renewable energy for African development**

**REAPS—reportable excess automated property system**

**REASURE—reporting evaluation auditing system for unsatisfactory reports**

**REB—relativistic electron beam**

**REBA—relativistic electron-beam accelerator**

**RECAP—review and command assessment of projects**

**RECCE—reconnaissance**

**REDAC—remote detection and control**

**REDAR—radiation and environmental data acquisition and recording**

**REDCOM—readiness command**

**redox—reduction oxidation**

**REDS—reactor electronic distribution system**

**REEC<sub>o</sub>—Reynolds Electrical and Engineering Co. (subsidiary of EG&G, Inc.)**

**ref—reference**

**ref sym—reference symbol (also RS)**

**REG—1. range extender with gain  
2. retard groundburst**

**REGAL—report generator algorithm  
reporting**

**REHR—reactor heat removal**

**REI—Raymond Engineering, Inc.**

**rem—roentgen equivalent man (or mammal)  
(use sv for sievert instead)**

**REM—1. recovery exercise module  
2. recognition memory (computers)  
3. radiation exposure model 4. remedial  
(planning)**

**REMBASS—remote battlefield sensor system**

**rep—roentgen equivalent physical (a unit of  
ionizing radiation)**

**RER—relative encryption range**

**RES—remote equipment shelter**

**RESC—reactor subcriticality**

**RESL—Radiological and Environmental  
Science Laboratory**

**REST—retrofit evaluation system test**

**Ret—retired**

**RETA—R. E. Timm & Associates**

**RET-ER—retirement engineering release**

**RETRVIR—remote telerobotic vehicle for  
intelligent remediation**

**rev—revolution**

**rev/s—revolutions per second; rps is preferred**

**RF—1. radio frequency 2. response force  
3. Rocky Flats 4. research foundation**

**RFA—1. request for analysis 2. RCRA facility  
assessment**

**RFAO—Rocky Flats Area Office (DOE)**

**RFCS—request for change of scope**

**RFD—1. rotating flexible decelerator  
2. reduced forward deployment  
3. radio frequency detection**

**RFF—response force facility**

**RFFS—request for facilities support**

**RFI—1. radio-frequency interference  
2. request for information 3. RCRA facility  
investigation 4. RCRA field investigation**

**RF/MW—radio-frequency and microwave  
(frequency)**

**RFP—1. request for proposal 2. Rocky Flats  
Plant (EG&G)**

**RFQ—request for quotation**

**RFS—radar fire signal**

**RFT—1. response force time 2. respirator fit  
test (datasheet)**

**RFTU—radar flight test unit**

**RG—Regulatory Guide**

**RGB—red, green, blue**

**RGC—Rio Grande Chapter (Local Chapter of  
the Project Management Institute)**

**RGH—rare-gas halogen**

**RGX—reverse geometry x-ray**

**RGZ—recommended ground zero**

**Rh**—rhodium (chemical symbol)

**RH**—1. relative humidity 2. remote handled

**RHALE**—robust hydrodynamics arbitrary  
Lagrangian Eulerian

**RHCP**—right hand circularly polarized

**RHEPP**—repetitive high-energy pulse power  
(RHEPP II is the world's highest average  
power electron-beam source)

**RHF**—report holdings file

**RHIC**—radiation-hardened integrated circuit

**RHM**—roentgen per hour at one meter

**rho**—product of fuel density

**RHO**—Rockwell-Hanford Operations

**RH-TRU**—remote handled transuranic waste

**RI**—1. radio interference 2. Rockwell  
International 3. responsible individual (see  
RP) 4. remedial investigation

**RIA**—1. Robotics Industries Association  
2. range insensitive axis 3. regulatory impact  
analysis

**RIB**—reference information base

**RIC**—1. resistance inductance capacitance  
2. Rare-Earth Information Center

**RID**—requirements identification document

**RI/FS**—remedial investigation/feasibility  
study

**RIG**—Risk-based Inspection Guide

**RIM**—relative importance measure

**RIMS**—roll-stabilized inertial measurement  
system

**RIMU**—reentry inertial measurement unit

**RIOM Manual**—RACON Installation,  
Operation, and Maintenance Manual

**RIP**—1. Retirement Income Plan 2. rapid  
interface phototyping 3. research in progress

**RIPE**—robot independent programming  
environment

**RIPL**—robot independent programming  
language

**RISC**—reduced instruction set computer

**RISE**—Regional Initiatives for Science  
Education (The program is to enhance science  
education from grade levels Kindergarten to  
12th grade)

**RIT**—record (or receipt) of internal transfer

**RIU**—radar interface unit

**RL**—radioluminescent

**RLCU**—remote launch control unit

**RLGA**—ring laser gyro assembly

**RLPG**—regenerative liquid propellant gun

**RMA**—return material authorization

**RMAP**—Risk Management Action Plan

**RMF**—remote monitoring facility

**RMIEP**—risk methodology integration and  
evaluation program

**RML**—1. remote maintenance line  
2. reactive multi-layers

**RMMA**—radioactive material management  
area

**RMP**—Risk Management Program



**rms or RMS**—root-mean-square

**RMS**—rotating mass storage

**RMSEL**—Robotic Manufacturing, Science, and Engineering Laboratory

**RMT**—remote maintenance terminal

**RMWS**—rail mobile weapon system

**RMWTS**—radioactive and mixed waste tracking system

**Rn**—radon (chemical symbol)

**RN**—regency net

**RND**—rules need date

**RNLN**—Royal Netherlands Navy

**rWc**—reciprocal ohm centimeter (electrical conductivity)

**rWm**—reciprocal ohm meter

**RO**—1. retrofit order 2. reactor operator 3. remains open

**ROA**—record of assembly

**ROADS**—range optimal advanced-development system

**ROBAT**—robotics obstacle breaching assault tank

**ROBCOM**—robot communication

**ROC**—1. required operation characteristics 2. required operation capability

**ROCAPS**—remote operation of cask penetration system

**ROCOMP**—radio- or computer-operated mobile platform

**ROD**—1. record of decision 2. record of dis-assembly 3. report of discrepancy

**RODAN**—robotic optical disk access node

**ROE**—remote operating equipment

**ROI**—1. return on investment 2. record of origination

**ROK**—Republic of Korea

**ROM**—1. read-only memory (computers) 2. rough order of magnitude

**ROMC**—read-only memory control

**ROO**—record of origination

**RORSAT**—radar ocean-reconnaissance satellite

**ROSES**—remote oscilloscope sealed environment system

**ROTL**—remote office test line

**ROV**—1. remotely operated vehicle 2. report of violation

**ROVER**—remotely operated vehicle for emplacement and reconnaissance

**RP**—1. radiation protection 2. rendezvous point 3. Reynold part (followed by the part number) 4. respiratory protection 5. responsible party

**RPC**—remote procedure cells

**RPDL**—Rapid Prototype Development Laboratory

**RPG**—rocket-propelled grenade

**Rph**—roentgens per hour

**RPI**—Rensselaer Polytechnic Institute

**RPL**—reactor-pumper laser

**rpm**—revolutions (or rate) per minute (see rps)

**RPM**—radial power monitor

**R&PM**—Regulations and Procedures Manual (DOE)

**RPP**—respiratory protection program

**RPPA**—respiratory protection program administrator

**RPQ**—respiratory protection questionnaire

**rps or rev/s**—revolutions per second (rps is preferred)

**RPS**—reactor protection system

**RPU**—receiver/processor unit

**RPV**—1. remotely piloted vehicle  
2. reactor pressure vessel

**RQ**—reportable quantities

**R&QA**—reliability and quality assurance

**RQP**—responsibilities, qualifications, and performance (ES&H)

**R/R**—recapture/recovery

**RRA**—Radiation Research Associates, Inc.

**RRC**—Regional Response Center

**RRDA**—Resource Recovery and Disposition Account

**RRI**—RCRA remedial investigation

**RRMT**—reactor and reactor material technology

**RRPC**—radiological respiratory protection coordinator

**RRPS**—robotic reconnaissance point sensor

**RRR**—reduced residual radiation

**RRRV**—rate of rise of recovery voltage

**RRSAS**—robotic radiation survey and analysis system

**RRT**—regional response team

**RRV**—robotics reconnaissance vehicle

**RS**—1. reentry system 2. reference symbol (also abbreviated: ref. sym.)  
3. reprocess specification

**r/s**—revolutions per second (rps is preferred)

**RSA**—1. reimbursable (or reimbursement) spending account 2. Radiation Safety Associates, Inc.

**RSAD**—requirements and self-assessment data-base

**RSAS**—regional seismic array system

**RSCFG**—revolutionary security concepts focus group

**RSCRC**—regional superfund community relations coordinator

**RSE**—1. receiver shield enclosure  
2. removal site evaluation

**RSI**—1. reactor safety information  
2. repetitive stress injury

**RSL**—Remote Sensing Laboratory (Las Vegas, NV)

**RSLP**—reentry systems launch program

**RSNF**—Royal Saudi Naval Forces

**RSO**—reported significant observation

**RSP**—1. render-safe procedure 2. rapid solidification processing

**RSPA**—Research and Special Programs Administration

**RSS**—1. reactor safety study 2. remote security station 3. relay station status 4. remote sub-system 5. ready safe switch

**RSSMAP**—Reactor Safety Study Methodology Application Program

**RSSPS**—remote sensor system for physical security

**RSTA**—reconnaissance, surveillance, and target acquisition

**RSTAKA**—reconnaissance, surveillance, target acquisition, kill, and assessment

**RSTN**—regional seismic test network

**RSV**—robotic security vehicle

**RSVP**—1. Remote Sensing and Verification Program 2. Retired Senior Volunteer Program

**rt or RT**—1. room temperature 2. rise time

**RT**—1. room temperature 2. rise time 3. real time

**RTAF**—read-time aperture flux

**RTB**—1. reentry thermal battery 2. robotic testbed

**RTDM**—remote transponder data modules

**RTDP**—Robotics Technology Development Program (DOE)

**RTECS**—registry of toxic effects of chemical substances

**RTG**—radioisotope thermoelectric generator

**RTL**—resistor-transistor logic (computers)

**RTO**—rail transportation office

**RTP**—1. restructured test program 2. rapid thermal process

**RTR**—routine technical report

**RTS**—1. return from subroutine 2. removal tracking system 3. run time storage

**RTV**—room temperature vulcanizing (or vulcanized)

**RUG by ball**—70 carbon atom fullerene

**RUPL**—radar-updated path length

**RV**—1. reimbursement voucher 2. reentry vehicle 3. reactor vessel

**RVA**—radar (or range), velocity, and attenuation

**RVB**—retractable vehicle barriers

**RVC**—reactor volume control

**RW**—river water

**RWA**—reaction wheel assembly

**R wave**—Rayleigh wave (seismology)

**RWE**—reactor works engineer

**RWIS**—raw water intake structure

**RWL**—reactor water level

**RWMC**—Radioactive Waste Management Complex

**RwoH**—reliability without hermeticity

**RWP**—radiation work permit

**RWQCB**—regional water quality control board

**RX—reactors**

**Ry—rydberg (see kayser)**

**RZ—radiation zone**

## **S**

**s—second**

**S—1. survivable 2. sulfur (chemical symbol)  
3. siemens 4. secret**

**S2—1. safeguards and security  
2. survivability and security**

**S3—safety, security, and survivability**

**SA—1. Sandia (National Laboratories)  
apparatus 2. storage activities 3. staging area  
4. safety assessment 5. standard assembly 6.  
self-assessment 7. SNL apparatus**

**S&A—sampling and analysis**

**SAALC—San Antonio Air Logistics Center**

**SAAT—Sandia accessibility advocacy team**

**SABRE—Sandia accelerator and beam  
research experiment**

**SAC—1. Sandia auxiliary closure  
2. Strategic Air Command (The Air Combat  
Command has now combined SAC and TAC  
into one command.)  
3. Support Agency Coordinator**

**SACA—Support Agency Cooperative  
Agreement**

**SACCS—SAC Command Control System**

**SACEUR—Supreme Allied Commander,  
Europe (NATO)**

**SACLANT—Supreme Allied Commander,  
Atlantic (NATO)**

**SACNET—secure automatic communication  
network (DOE)**

**SACR—SAC regulation**

**SACROC—Strategic Air Command required  
operational characteristics**

**SACS—safeguards alarm and  
communications system**

**SADARM—search-and-destroy armament**

**SADCAT—structural analysis of 3-D core  
assembly transient (computers)**

**SADM—small (or special) atomic demolition  
munition**

**SAE—Society of Automotive Engineers**

**saf—safed**

**SAF—1. security automated fabrication  
2. safe, arm, and fuze**

**SAFE—1. safeguards automated facility  
evaluation 2. Sandia award for excellence**

**SAFER—security and force-protection  
enhancement resources**

**SAFETEC—safety technology**

**SAFF—safe, arm, fuze, and fire**

**SAFM—safe monitor**

**SAGE—semi-automated ground environment**

**SAHP—solar-augmented heat pump**

**SAI—Science Applications, Inc. (La Jolla, CA)**

**SAIC—Science Applications International  
Corporation**

**SAIR—safe and in-range**

**SAK—a one-dimensional kinetics computer code**

**SAL—Safeguards Analytical Laboratory (Seibersdorf, Austria)**

**SALAD—1. slide-actuated, laser-armed detonator 2. seismic acoustic low-altitude aircraft detector**

**SALC—systematic assessment of licensee performance**

**SALE—safeguards analytical laboratory evaluation**

**SALOGS—Sandia logic simulation**

**SALSA—SNL application code designed to simulate complex fluid flows on large-scale parallel computers**

**SALSIM—SALOGS simulation**

**SALT—Strategic Arms Limitation Talks**

**SAM—1. sensor access manager 2. surface-to-air missile 3. scanning Auger microscope**

**SAMA—Scientific Apparatus Makers Association**

**SAMP—Sickness Absence Management Plan**

**SAMPE—Society for the Advancement of Material and Process Engineering**

**SAMS—Sandia/Air (Force) materials study**

**SAMSO—Space and Missile Systems Organization**

**SAMSON—semiautonomous mobile system for ordnance neutralization**

**SAMT—State-of-the-art medium terminal**

**SAN—San Francisco Operations Office (DOE)**

**SANDAC—1. Sandia data acquisition computer 2. Sandia airborne computer 3. Sandia aerospace computer**

**SAND DEVIL—Sandia digitally encoded video junk**

**SANDUS—Sandia digital underground system**

**SANTOS—SNL mechanic code (static) (see PRONTO)**

**SAO—Sandia Area Office (DOE)**

**SAP—1. simulation administration program 2. special access program**

**SAR—1. safety analysis report 2. synthetic aperture radar 3. supplied air respirator 4. search and rescue**

**SARA—Superfund Amendment and Reauthorization Act**

**SARF—special airburst radar fuze**

**SARGE—surveillance and reconnaissance ground equipment**

**SARL—Sandia Aerosol Research Laboratory**

**SAROS—synthetic aperture radar for open skies**

**SAROS Document Manager—window based system that stores documents in the Mezzanine Library. The Mezzanine manages information using networks.**

**SARP—1. safety analysis report for packaging 2. severe accident risk program**

**SAS—1. safety analysis system (computers) 2. statistical analysis system 3. sealed (or secure) authentication system 4. secondary alarm station 5. Senate Armed Services (Committee)**

6. synthetic aperture sonar 7. semi-annual soils 8. special analytical service 9. safety assurance system

**SASA**—severe accident sequence analysis

**SASG**—Safety Analysis Software Group (DOE)

**SASL**—a stress computer code

**SASP**—special ammunition supply point

**SASS**—1. special aircraft stores shop  
2. sequential access storage system

**SAT**—1. security alert team 2. supervised autonomous testbed 3. staff assistant technical 4. satellite 5. Scholastic Aptitude Test

**SATC**—seismic/acoustic target classifier

**SATCAP**—satellite capability

**SATCOM**—satellite communications

**SATIN**—SAC AUTODIN teletype interface

**SATTLIF**—Sandia Transportable Triggered Lightning Instrumentation Facility

**SATURN**—The world's most powerful plasma radiation source

**SAV**—semi-annual vegetation

**SAVI**—systematic analysis of vulnerability to intrusion

**SAW**—1. surface acoustic wave 2. squad automatic weapon 3. self-assessment work

**SAWE**—Sandia water-entry

**SAXS**—small-angle x-ray scattering

**Sb**—1. stibium (antimony) (chemical symbol)  
2. stilb (optics)

**SB**—1. small business 2. surface burst

**SBA**—Small Business Administration

**SBC**—single-board computer

**SBEL**—Structural Behavior Engineering Laboratory (Phoenix, AZ)

**SBIR**—small business innovative resource

**SBIRCCD**—Schottky barrier infrared charge-coupled device (computers)

**SBLOCA**—small break LOCA

**SBO**—station blackout

**SBX**—single-board extension

**S2C**—safety, security, and control

**Sc**—scandium (chemical symbol)

**SC**—1. shape component 2. separable component

**SCA**—Service Contract Act

**SCALEBOARD**—NATO designation for Soviet SS-12 missile

**SCAP**—Superfund Consolidated Accomplishments Plan

**SCAQ**—significant conditions adverse to quality

**SCARB**—Sandia Corrective Action Review Board

**SCARS**—1. status, control, alerting, and report-ing system (NATO) 2. system control and receiving station

**SCB**—1. semiconductor bridge 2. Sandia Classification Bulletin 3. sliding crash beam

**SCBA**—self-contained breathing apparatus

**SCC**—1. stress corrosion cracking  
2. SECOM Control Center 3. Security Control  
(or Communications) Center  
4. Switching Control Center 5. Security  
Command Center (SNL) 6. Sandia  
Compensation Council 7. Sandia Computer  
Committee

**SCCF**—sprayed chopped-carbon fiber

**SCIF**—sensitive compartmented information  
facilities

**SCIP**—security-type lockbox

**SCCM**—standard cubic centimeters per  
minute

**SCCS**—1. safeguards central control system  
2. safeguards control and communications  
system 3. source code control system 4.  
single-code coded switch

**SCCT**—survivable command center  
technology

**SCD**—source control drawing

**SCDC**—signal certification device coder

**SCDR**—Sandia Corporation Development  
Report (one of the designations for early  
SAND reports; now obsolete)

**scf**—standard cubic feet

**scfh**—standard cubic feet per hour

**SCI**—sensitive compartmented information

**SCIAD**—science advisor (SNL)

**SCILS**—sensitive countries information  
logging system

**SCIS**—1. security configuration information  
system 2. Service Center Integrated (or  
Information) System  
3. survivable communications integration

system 4. Sensitive Country Information  
Logging System (DOE)

**SCISEARCH**—Science Citation Index Search

**SCM**—1. sensor capabilities modeling  
2. small-core memory 3. statistical crack  
mechanics

**SC-M**—Sandia Corporation Miscellaneous (a  
designation for SAND reports; now obsolete)

**SCN**—Sandia Computing Newsletter

**SCNMTAA**—South Central New Mexico  
Technicians Affiliate Association

**SCORE**—Service Corp of Retired Executives

**SCORES**—scenario-oriented recurring  
evaluation system

**SCP**—1. Squadron Command Post  
2. shelter control panel 3. secure conferencing  
project 4. Sandia Clara plastics

**SCPR**—Sandia Corporation progress report  
(one of the designations for early SAND  
reports; now obsolete)

**SCPV**—safeguards coordination and  
performance verification

**SCR**—1. silicon-controlled rectifier  
2. Sandia contracting representative (buyer)  
3. Semiconductor Research Corporation

**SCRR**—Sandia Corporation research report  
(one of the designations for early SAND  
reports; now obsolete)

**SCS**—1. secure container system  
2. supplementary cooling system  
3. Sandia Contracting Specialist

**SCSC**—Small Computer Support Center

**SCSD**—secure codes storage device

**SCSI**—small computer system interface

**SCSP—single-crystal silicon photovoltaics**

**SCSR—Sandia Corporation Systems Report (one of the designations for early SAND reports; now obsolete)**

**SCT—1. stockpile confidence test  
2. Super-conducting Core Technologies (Company)**

**SCTI—sodium components test installation**

**SCTIS—single-channel transponder injection system**

**SCTM—Sandia Corporation Technical Memorandum (obsolete; now SNL Internal Memorandum)**

**SCUBA—self-contained underwater breathing apparatus**

**SCW—service clarified water**

**SCWD—Sandia Corporation Weapon Development (one of the designations for early SNL SAND reports; now obsolete)**

**SCWMT—SNL chemical waste management team**

**SCWO—supercritical water oxidation**

**SD—1. self-destruct 2. standard deviation  
3. source data 4. safe drinking (water)**

**SDA—1. source data acquisition (computers)  
2. system design alternatives**

**SDACS—stored data acquisition system**

**SDB—small disadvantaged business**

**SDC—1. Strategic Defense Command  
2. shut-down cooling**

**SDCSIC—semi-domesticated critter scat identification chart (for hantavirus work)**

**SDD—1. safety determination documentation  
2. system design description (or document)**

**SDDDB—stockpile dismantlement database**

**SDDM—Secretary of Defense Decision Memorandum**

**SDF—Strategic Defense Facility**

**SDHX—shutdown heat exchange**

**SDI—1. strategic defense initiative  
2. selective dissemination of information 3. steel door (or deck) institute**

**SDL—Spectra Diode Laboratories**

**SDM—scanning detection mode**

**SDMS—shared document management system**

**SDP—subseabed disposal program**

**SDR—1. systems design review 2. Sandia delegated representative 3. spin dependent recombination 4. significant defect report (obsolete; now SFIR)**

**SDS—shutdown sequence**

**SDT—1. shock-detonation transition  
2. signal data translator**

**SDU—slave display unit**

**SDW—special development warhead**

**SDWA—Safe Drinking Water Act**

**SE—standard error**

**SEA—1. Statement of Employee Account  
2. Science Engineering Associates, Inc.**

**SEAB—Secretary of Energy Advisory Board**

**SEAD—safeguards engineering and analysis database**



**SEAL—sea-air-land (observation)**

**SEAM—spin ejector adapter module**

**SEAMIST—Science and Engineering Associates membrane instrumentation and sampling technique**

**SEARA—stockpile evaluation and reliability**

**SeaRAM—sea radioactive materials**

**SEASAT—SEAL (observation) satellite**

**SEAV—security enhancement to Area V (Sandia/NM)**

**SEB—Source Evaluation Board**

**SEBAS—scattering of electrons by atomic systems (computers)**

**sec—1. secure 2. secant**

**SEC—1. Securities and Exchange Commission  
2. Sandia ES&H Council (obsolete; now SQLC) 3. secondary electron conduction**

**SECAS—security assurance**

**SECDEC—single error correcting, double error correcting**

**SECDEF or SecDef—Secretary of Defense**

**SECOM—security communications**

**SECSY—spin-echo correlated spectroscopy**

**SED—1. stockpile entry date (or data)  
2. skin erythema dose (radiation)  
3. statistical experimental design**

**SEDEC—Semiconductor Equipment Development Center**

**SEDO—specified external distribution only (obsolete; use a current unclassified release statement)**

**SEEK-TALK—jam-resistant radio (USAF)**

**SEES—security exercise evaluation simulation (or system)**

**SEFOR—southeast fast oxide reactor**

**SEI—space exploration initiative**

**SEIS—Supplemental Environmental Impact Statement**

**SEL—1. special equipment list 2. sound exposure level**

**SEM—1. scanning electron microscopy  
2. sensor and environment monitor  
3. Society of Experimental Mechanics  
4. science, engineering, and mathematics**

**SEMATECH—semiconductor manufacturing technology**

**SEMS—seafloor earthquake measurement system**

**SEMY—summer employment (for) minority youth**

**SEN—Secretary of Energy Notice**

**SENA—student (or summer) employment for Native Americans**

**SENLEX—sensor layout expert (system)**

**SENS—suspect equipment notification system**

**SEP—1. spherical error of probability  
2. selective employment package  
3. systematic evaluation program  
4. surface electrical potential 5. strike enable plug**

**SEPE—sources of ES&H personnel expense**

**SEPG—software engineering process group**

**SEPUP—Science Education for Public Understanding Program**

**SEPW—strategic earth-penetrator weapon**

**seq—sequence**

**SEQR—stockpile evaluation qualification release**

**SER—1. safety evaluation report  
2. stockpile emergency report**

**SERA—superfund emergency response action**

**SERAPHIM—a high speed train that is a spin off from the coil-gun technology that was created at SNL**

**SERC—State Emergency Response Commission**

**SERF—Sandia Engineering Reactor Facility**

**SERI—Solar Energy Research Institute**

**SERIP—SIGINT/EW Readiness Improvement Program**

**SERP—Sandia Employees Recreation Program**

**SERS—surface-enhanced Raman spectroscopy**

**SES—1. Standards Engineers Society  
2. system external specifications  
3. stationary energy storage**

**SESC—Sandia Explosives Safety Committee**

**SETAF—Southern European Task Force (Army)**

**SETEC—Semiconductor Equipment Technology Center**

**SETS—set equation transformation system (computers)**

**SEU—single-event upset**

**SEV—stockpile emergency verification**

**SE/VMS—security-enhanced virtual memory system**

**SF—1. security force 2. special forces  
3. superfund 4. significant finding**

**SFA—1. security fault analysis  
2. systemic factors analysis**

**SFD—system field demonstration**

**SFE—1. Sandia-furnished equipment  
2. slim loop ferroelectric**

**SFEE—small forces engagement exercises**

**SFFT—superconducting flux-flow transistor**

**SFI—significant finding investigation**

**SFIR—significant finding investigative report**

**SFIS—striped-filter image sensor**

**SFK—special-function keyboard**

**SFMT—San Francisco-Moscow teleport (an electronic bulletin board)**

**SFPE—Society of Fire Protection Engineers**

**SFRD—secret, formerly restricted data**

**SFT—stockpile flight test**

**SG—1. superconducting generation  
2. silicon gate**

**SGA—Sandia Golf Association**

**SGC—Space General Corporation**

**SGEMP—system-generated electromagnetic pulse**

**SGM—spark-gap modulation**

**SGML**—standard generalized markup language (international standard for text markup)

**SGT**—1. secure ground transport  
2. safeguards transport

**SGTS**—standby gas treatment system

**SH**—1. shear horizontal 2. sleeve housing

**SHAC**—solar heating and cooling

**SHAD**—Sandia helicopter acoustic detector

**SHAPE**—Supreme Headquarters Allied Powers, Europe

**SHEAC**—Safety, Health, and Environment Appraisal Committee

**SHED**—solar heat-exchange drive

**SHEE**—safe high-energy explosive

**SHF or shf**—super-high frequency

**SH&F**—Safety, Health, and Facilities

**SHORAN**—short-range (radio)

**SHPO**—State Historic Preservation Office

**SHRP**—Strategic Human Resources Plan

**SHT**—seal head tank

**Si**—silicon (chemical symbol)

**SI**—1. Système International d'Unites (International System of Units)  
2. security inspector 3. Special Intelligence 4. storage inspection  
5. site inspection 6. Salt Institute

**SIA**—Semiconductor Industry Association (San Jose, CA)

**SIAM**—self-initiated attack missile (also known as “Little David”)

**SIC**—standard industrial classification

**SICADS**—site-independent configurable alarm display system

**SICBM**—small intercontinental ballistic missile

**SICBM/HML**—SICBM/hard mobile launcher

**SICS**—safety injection control system

**SID**—site interface device

**SIDAS**—sodium iodide detector (response) analysis software

**SIDSS**—Sandia irradiator for dried sewage solids

**SIED**—sophisticated improvised explosive device

**SIER**—special instruction engineering release

**SIEX**—steady-state in-pile behavior of mixed-oxide fuels (computers)

**SIG**—1. special-interest group  
2. selenide-isotope generator

**SIGDISC**—special-interest group (for optical) disks

**SIGINT/EW**—Signals Intelligence/Early Warning

**Sigma**—a weapon data access designator

**SIK**—system independent kernel

**SIL**—speech interference level

**SIM**—strategic issues management

**SIMD**—single instruction, multiple data

**SIMOX**—separation by implementation of oxygen

**SIMPLE**—subassembly interchange mixing program for flow effects (computers)

**SIMS**—1. Sandia intruder motion simulator  
2. standards information management system  
3. Sandia issues management system

**sin**—sine

**sinh**—hyperbolic sine

**SIN**—site information network

**SINCGARS**—single-channel ground and aircraft radio system

**SIOP**—single integrated operational plan

**SIP**—1. stockpile improvement program (or plan) 2. shock-induced polarization  
3. state implementation plan

**SIPE**—soldier integrated protective ensemble

**SIPI**—Southwest Indian Polytechnic Institute

**SIR**—1. Sandia (National Laboratories) interior robot 2. semi-annual inventory report

**SIRAS**—Sandia independent review and appraisal system

**SIREN**—search intercept retrieve expulsion nuclear

**SIS**—1. safeguards information system  
2. superconductivity information system  
3. system internal specifications 4. shaft instrumentation system

**SIT**—1. sonar impingement test 2. silicon intensified target 3. system interface test

**SITAN**—Sandia inertial terrain-aided navigation

**SITB**—system integration testbed

**SITE**—superfund innovative technology evaluation

**SITV**—Stanford Instructional Television

**SIVC**—systematize, internationalize, vitalize, and commercialize

**SJP**—standard job procedure

**SJSSA**—Sandia jump start self-assessment

**SKEDS**—Sandia/Kirtland emergency database system

**SL**—1. strong-link (adjective); strong link (noun) 2. special linear

**SLA**—1. Sandia Laboratories, Albuquerque (obsolete; changed to SNL/New Mexico) 2. sequential launch adapter 3. sea, land, and air

**SLAC**—Stanford Linear Accelerator Center

**SLAP**—saboted light-armor penetrator (or penetration)

**SLAR**—side-looking airborne radar

**SLATEC**—Sandia/LANL AFWL Technical Exchange Committee

**SLATS**—solar linear array thermal system

**SLAVE**—Sandia Laboratories Augmented VAX Editor

**SLB**—shallow land burial

**SLBM**—submarine-launched ballistic missile

**SLC**—subscriber loop carrier

**SLCM**—sea-launched cruise missile

**SLCS**—standby liquid control system

**SLEDS**—Sandia Laboratories engineering drawing standards

**SLFCU—Sandia Laboratories Federal Credit Union**

**SLFE—slim loop ferroelectric**

**SLFS—stronglink firing switch**

**SLI—Sandia Laboratories Instruction (obsolete; now Sandia Laboratories Policy)**

**SLIC—Sandia Laboratories Information Center**

**SLIFER—shorted location indication from electrical resonance**

**SLIM—Sandia/LANL interface mockup**

**SLIME—sublethal interdicting materials experiment**

**SLIS—Sandia Livermore information system**

**SLL—Sandia Laboratories, Livermore (obsolete; now SNL/California)**

**SLM—1. standard liters per meter  
2. subscriber loop multiplex 3. sound level meter**

**SLP—Sandia (National) Laboratories Policy (formerly SLI)**

**SLS—1. strained-layer superlattice  
2. Strained-layer semiconductor  
3. strong-link switch 4. selective laser sintering**

**SLSC—small linear-shaped charge**

**SLT—stockpile laboratory test**

**SLUMPY—fuel slumping (computers)**

**SLWPG—Senior-Level Weapon Protection Group**

**SLYP—solving last year's problems**

**Sm—samarium (chemical symbol)**

**SM—1. status messages 2. standard missile (Navy)**

**S&M—surveillance and maintenance**

**SMAC—shipment mobility accountability collection**

**SMART—1. sequential modular architecture for robotics and telecommunication 2. safety, maintenance, and repair team**

**SMARTS—Sandia modular advanced reconfigurable telemetry system**

**SMARTWELD—computerized system for rapid-response manufacturing**

**SMAS—switched maintenance access system**

**SMC—1. system monitor and control  
2. Sandia Management Council (obsolete; use SQLC)**

**SMCL—secondary maximum contaminant level**

**SMCM—sea mine countermeasures**

**SMCRA—Surface Mine Control and Reclamation Act (1977)**

**SMCS—surveillance monitoring and control subsystem**

**SMCTF—Solar Materials and Components Test Facility**

**SMD—surface mount device**

**SMDC—supervisors' management development course**

**SME—1. Society of Manufacturing Engineers  
2. subject matter expert**

**SMERF—Smoke Emission Reduction Facility**

**SMES**—superconducting magnetic energy storage

**SMFAS**—simplified modular frame assignment system

**SMG**—submachine guns

**SMI**—1. salary merit increase 2. static memory interface (microprocessors)

**SMLM**—Soviet Military Liaison Mission

**SMMP**—Special Microelectronics Master's Program

**SMO**—Sample Management Office

**SMOA**—Superfund Memorandum of Agreement

**SMOL**—strained-metal overlayers

**SMOOPI**—shadow moiré out-of-plane interferometric (damage detector)

**SMP**—1. software management program 2. site management plan 3. special master's program

**SMPC**—1. specialty metals processing consortium 2. switch-mode power converters

**SMRSF**—special moment resisting space frame

**SMS**—site management system

**SMTP or smtp**—simple mail transfer protocol

**SMTS**—senior member of technical staff

**SMU**—source measure unit

**SMUG**—Sandia Macintosh Users' Group

**sn**—sensor

**S/N or SN**—1. signal to noise 2. stock number 3. serial number

**SNA**—systems network architecture

**SNAFU**—situation normal, all fouled up

**SNAP**—1. systems for nuclear auxiliary power 2. safeguards network analysis procedure

**SNEC**—Subgroup on Nuclear Export Coordination

**SNF**—short-range nuclear force

**SNIPER**—subnanosecond impulse radiator

**SNL**—When referring to a specific Sandia location, use the formal (Sandia National Laboratories), informal (Sandia), or acronym (SNL) name as appropriate, with the state name following, separated by a slash.

Examples:

1. Sandia National Laboratories/New Mexico is the site of PBFA II. 2. The Combustion Research Facility at Sandia/California develops and applies new research tools to problems in combustion research. Note: For internal audiences and others familiar with Sandia, the short forms “Sandia/NM” and “Sandia/CA” may be used. Facilities may also be referred to as “the California laboratory” and the “New Mexico laboratory.” Sandia Corporation is the official corporate name. Use it in legal and official documents, contracts, or leases.

**SNLESC**—SNL Electrical Safety Committee

**SNM**—1. strategic nuclear material 2. special nuclear material

**SNMERC**—Southeast New Mexico Education Resource Center

**SNOBOL**—string oriented symbolic language (A computer language developed by Bell Labs.)

**SNORT**—supersonic naval ordnance research track

**SNOS—1. silicon nitrate oxide semiconductor  
2. silicon nitride oxide silicon**

**SNR—1. sodium-cooled nuclear reactor  
2. signal-to-noise ratio**

**SNS—Sandia notification system**

**SNTP—space nuclear thermal propulsion (or  
program)**

**SNU—solar neutrino unit**

**SNUPPS—standardized nuclear unit power  
plant system**

**SO—special order**

**SOA—systems ordering agreement**

**SOAR—Space Operations and Applications  
Research**

**SOC—1. synthetic organic compound  
2. security overpack container 3. security  
operations computer**

**SOCOM—special operations command**

**SODAS—Sandia optical disk archival system**

**SOF—Special Operations Forces**

**SOFPARS—Special Operations Forces  
planning and rehearsal system**

**SOH—state of health**

**SOI—silicon-on-insulator**

**sol—soluble**

**sol-gel—solution gelation**

**SO/LIC—special operations/low intensity  
conflict**

**soln—solution**

**SOMNET—Sandia (Labs) open mail network**

**sonar—sound navigation and ranging**

**SOP—1. Standard Operating Procedure  
(ES&H) 2. Safe Operating Procedure (ES&H)  
3. standard operating power**

**SOR—1. specific operational requirement  
2. service order request**

**SORV—stuck open relief valve**

**SOS—1. silicon-on-sapphire (memory)  
2. self-optimized sector (a code)**

**SOTAS—standoff target acquisition system**

**SOTF—security operations training facility**

**SOUTHCOM—Southern Command**

**SOW—1. statement of work 2. standoff  
weapon**

**sp—1. special 2. Specific**

**SP—1. sparkplug 2. standard procedure**

**S&P—synthesis and processing**

**sp act—specific activity**

**SPADAT—space detection and tracking**

**SPADIS—Space Defense information system**

**SPADOC—Space Defense Operations Center**

**SPC—1. statistical process control  
2. switching power combiner 3. Sandia  
Program Council (obsolete; use SQLC)**

**SPCC—spill prevention controls and  
countermeasures.**

**SPCDS—small permanent communications  
and display segment**

**SPD—summary plan description**

**SPDS—safety performance data system**

**SPDT**—single pole, double throw (electrical switch)

**spec**—specification

**SPECT**—single photon emission computerized tomography

**SPETsNAZ**—American Translation: Soviet Special Forces

**SPFE**—special projects flight experiment

**SPG**—single-point ground

**sp gr**—specific gravity

**sp ht**—specific heat

**SPI**—security profile inspection (computers)

**SPIC**—serial/parallel/interrupt controller (card)

**SPICE**—a program for electronic circuit analysis

**SPIE**—Society of Photo-Optical Instrumentation Engineers

**SPIN**—Software Process Improvement Network

**SPIR**—short perimeter intrusion radar

**SPIRITS**—spectral and in-band radiometric imaging of targets and scenes

**SPL**—1. sound pressure level  
2. semiconductor packaging laboratory  
3. self-propelled launcher 4. spare parts list  
5. silent-power limited

**SPLTS**—special private line telephone system

**SPM**—system prioritization method

**SPMS**—1. safety performance measurement system 2. strategic planning and management system

**SPMT**—small project management team

**SPN**—stop-production notice

**SPO**—1. security police officer 2. Special Projects Office (Navy)

**SPOT**—Satellite pour l'Observation de la Terre

**SPP**—standard practice procedure

**SPR**—1. Sandia Pulsed Reactor  
2. strategic petroleum reserve

**SPRINT**—sub-program (manager) integration team

**sps or SPS**—samples per second

**SPS**—1. sun-present sensor 2. safety precedence sequence 3. simplified processing station  
4. sample protection system

**SPSE**—savings plan for salaried employees

**SPST**—single pole, single throw (electrical switch)

**SPT**—signal processor and timer

**SPUR**—space power unit reactor

**SPV**—small projectile vault

**sp vol**—specific volume

**sq**—square (use of the superscript <sup>2</sup> is preferred)

**SQA**—software quality assurance

**SQC**—1. Sandia Quality Council (obsolete; use SQLC) 2. statistical quality control



**SQF**—subjective quality factor

**SQIT**—Sandia quality improvement team

**SQL**—structured query language

**SQLC**—Sandia Quality Leadership Council (or Committee) (replaces SEC, SMC, and SQC)

**SQL/DS**—structured query language/data system

**SQPC**—Secretarial Quality Process Council (or Committee)

**SQSC**—Sandia Quality Steering Council (or Committee).

**SQW**—single quantum well

**SQWFET**—strained quantum well, field-effect transistor

**sr**—steradian (solid angle)

**Sr**—strontium (chemical symbol)

**SR**—1. supplemental requirements  
2. software requirements 3. slant range  
4. suppressed radiation 5. Steel Room  
6. Savannah River (Operations Office/DOE)

**S&R**—shipping and receiving

**S/R**—safety/relief

**SRA**—1. Sandia recognition award  
2. special recognition award

**SRAM**—1. short-range attack missile  
2. static random-access memory

**SRAM-T**—short-range attack missile, tactical

**SRB**—solid-fuel rocket booster

**SRBM**—short-range ballistic missile

**SRC**—1. sample recovery canister 2. space response cell 3. Semiconductor Research Corporation 4. Semiconductor Research Council 5. Safety Review Committee

**SRCSC**—Sandia Radiological and Criticality Safety Committee

**SRD**—1. secret restricted data 2. system requirements document

**SRE**—subsystem research experiment

**SREMP**—source-region electromagnetic pulse

**SRF**—Secure Reserve Force

**SRI**—Stanford Research Institute

**SRIC**—Semiconductor Research Integration Center

**SRID**—standards/requirements identification document

**SRIR**—semirigid inspection resin

**SRIS**—short-range thermal sight

**SRL**—Savannah River Laboratory

**SRO**—1. Savannah River Operations (DOE)  
2. senior reactor operator

**SRP**—Savannah River Plant

**SRS**—1. Savannah River Site 2. secure recode system

**SRSC**—Sandia reactor safety committee

**SRT**—1. special response team 2. security response team

**SR/TR**—strategic reconnaissance/tactical reconnaissance

**SRTS**—short-range thermal sight

**SRV—1. surrogate research vehicle  
2. small (or single) reentry vehicle  
3. safety relief valve**

**SRVS—Sandia reimbursement and  
vouchering system**

**SS—1. stainless steel 2. special (or system)  
specification (a drawing prefix)  
3. US designator for Soviet surface-to-surface  
missile 4. sole source 5. stockpile support 6.  
security/safety (interface)  
7. shift supervisor**

**S&S—safeguards and security (sometimes  
written as S<sup>2</sup>)**

**SSA—1. senior scientific adviser 2. single  
stronglink assembly 3. source selection  
authority**

**SSAC—Source Selection Advisory Council**

**SSB—single sideband**

**SSBN—Navy designator for its ballistic missile  
launching nuclear submarine**

**SSC—1. Soldier Support Center (Army)  
2. structures, systems, and components  
3. scientific support contractor  
4. superfund state contract**

**SSCC—Site Security Control Center**

**SSCR—1. system software change request  
2. senior Sandia contracting representative**

**SSD—1. steady-state distribution 2. solid-state  
storage device 3. safety, security, and  
dismantlement**

**SSDA—synchronous serial data adapter**

**SSDC—1. Site Security Defense Center  
2. Safety System Department Center (DOE)**

**SSDPM—Sandia software development  
process management**

**SSEB—Source Selection Evaluation Board**

**sSF—standard saybolt fural**

**SSF—1. Service Storage Facility 2. saybolt  
seconds fural**

**SSFC—Self-Service Finance Center**

**SSFI—1. safety system functional inspection  
2. Scaffolding, Shoring, and Forming Institute**

**S2SG—Survivability and Security Steering  
(and Working) Group**

**SSI—1. ship's system instrumentation  
2. small-scale integrated**

**SSID—supplemental structural inspection  
document**

**SSL—1. secondary standards laboratories  
2. Sandia Standards Laboratory**

**SSM—1. secure storage modules 2. single  
side-band modulation 3. solid-state memory  
4. surface-to-surface missile**

**SS/M—sole source/make (form) (The form is  
for procurements greater than \$25,000.)**

**SSN—1. shape-stable nosetip 2. social security  
number 3. secure supercomputing networking  
(or network) (SNL)**

**SSNM—strategic special nuclear material**

**SSO—source selection officer**

**SSOMI—safety system outage modification  
inspection**

**SSP—1. Stockpile Sampling Program  
2. Savings and Security Plan 3. Schedule  
Strike Plan**

**SSPO—Strategic Systems Project Office**

**SSPS—solid state protection system**

**SSR—1. solid-state relays 2. safe-secure railcar 3. stockpile surveillance reliability**

**SSRS—STRATCOM secure recode system**

**SSS—1. safe shutdown system  
2. supplementary safety system  
3. Systems Science and Software (Company)**

**SSSA—Soil Science Society of America**

**SSSP—safeguards and security site plan**

**SST—1. safe-secure trailer (or transport)  
2. single-shell tank**

**SSTB—Salton Sea Test Base**

**SSTS—space surveillance and tracking system**

**SSTTP—safeguards system test target program (missile launching)**

**sSu—standard saybolt, universal**

**SSU—1. saybolt seconds, universal  
2. security system upgrade**

**SSV—simplified storage vault**

**St—stoke (use m<sup>3</sup>s kinematic viscosity)**

**ST—1. space (and missile) technology  
2. Sandia traveler 3. superconducting transmission**

**S&T—systems and technology**

**S&TA—Science and Technology Alliance**

**STA—1. senior technical associate 2. shift technical advisor**

**STAC—stemming anchor closure**

**STACS—strategic and theater (tactical) advanced communications study**

**STADAN—space tracking and data acquisition network**

**stalo—stable local oscillator**

**STANAG—Standardization Agreement (NATO)**

**STAR—1. shock thermodynamics applied research 2. shock technology applied research**

**STARBASE—security tracking and response base**

**STARFIX—satellite timing and ranging fix**

**STARLOC—Sandia target location computer**

**STARS—strategic target system**

**START—Strategic Arms Reduction Treaty**

**STAS—safe-to-arm signal**

**stat- —Prefix indicating an electrical unit in electrostatic centimeter-gram-second system of units; SI recommends discontinuing the term.**

**STC—1. Society for Technical Communication 2. seismic target classifier**

**STCS—short-term compliance statement**

**std—standard**

**STE—system test equipment**

**STED—solar turboelectric drive**

**STEL—short-term exposure level**

**STEM—scanning transmission electron microscope**

**STEP—1. solar total energy project  
2. stockpile transition enabling program 3. standard for the exchange of product (model data) 4. standardization enabling project (or program)**

**STEPS**—Sandia text editing and photosetting system

**STF**—1. safety test facility 2. systems test facility

**STI**—1. scientific and technical information 2. surveillance test interval

**ST&I**—security theme and implementation

**STL**—Simulation Technology Laboratory

**STM**—1. secure transport module  
2. scanning, tunneling microscope  
3. stirling thermal motors 4. scientifically tailored materials stack tritium monitor

**STMBMS**—simultaneous thermogravimetric modulated beam mass spectrometry

**STMPO**—solar ten-megawatt project office

**S&TNF**—strategic and theater nuclear forces

**STNG**—sealed tube neutron generator

**STOC**—Special Technical Operations Center

**STOL**—short takeoff or landing

**STOLS**—surface towed ordnance locator system

**STOP**—safety training observation program

**STOVL**—short takeoff or vertical landing

**STP**—1. system test plan 2. standard temperature and pressure 3. special technologies program 4. software test plan 5. surety technology program 6. software through pictures

**STPP**—standard truncated pyramid pillar

**STR**—software trouble report

**STRAC**—Strategic Army Corps

**STRATCOM**—1. Strategic Communications  
2. Strategic Command

**STRAW**—structural analysis of subassembly wrappers (computers)

**STREP**—System Technology Reentry Experiments Program (Army)

**STRESS**—structural engineering system solver (computers)

**STRICOM**—Strike Command

**STS**—1. stockpile-to-target sequence  
2. standard threshold shift 3. safeguards transportation system

**STSC**—secure transportation and storage container

**STTF**—Solar Thermal Test Facility (now the National Solar Thermal Test Facility)

**STTR**—small-business technology transfer

**STU**—1. scientific test unit 2. special test unit  
3. seismic test unit 4. secure telephone unit

**STX**—sensor transmitter

**SUCI**—sensitive use control information

**SUM**—Software User's Manual

**SUMMER**—Sandia unmanned mobile-machine experimentation range

**SUNMOS**—Sandia/University of New Mexico operating system

**SUPA**—submicron particle analyzer

**SUPER**—science understanding promotes environmental responsibility

**SURF**—system utilization reaction factor

**SURP**—Sandia university research program

**SUWCO—Sewer Use and Wastewater Control Ordinance**

**sv—sievert (J kg-1; formerly rem)**

**SV—1. space vehicle 2. secure voice  
3. standoff vulnerability 4. shear vertical**

**SVC—special verification commission**

**SVCN—secure video conferencing network**

**SVDI—Sandia virtual device interface**

**SVIA—Specialty Vehicle Institute of America**

**SVIS—Sandia Voice Information System**

**SVL—Secure Voice Link**

**SVLS—submarine vertical launch system**

**SVMS—Sandia voice messaging system**

**SVN—secure voice network**

**SVT—system verification test**

**SW—1. shortwave 2. shallow water**

**SWAP—stress wave analysis program**

**SWAPS—secretarial, writing, and professional standards**

**SWAT—1. special weapons and tactics  
2. sum of weighted accelerations technique 3. solid waste assessment test**

**SWDA—Solid Waste Disposal Act**

**SWE—Society of Women Engineers**

**SWEC—Stone and Webster Engineering Corporation**

**SWERVE—Sandia winged energetic reentry vehicle**

**SWF—1. Strategic Weapon Facility  
2. stress-wave factor**

**SWFLANT—Strategic Weapon Facility, Atlantic**

**SWFPAC—Strategic Weapon Facility, Pacific**

**SWG—seabed working group**

**SWGA—Sandia Women's Golf Association**

**SWHAS—1. Sandia workplace hazards awareness system 2. Sandia workplace hazards awareness signs**

**SWIFTII—a computer code**

**SWIM—special weapon inventory management**

**SWIRC—Southwest Information and Research Center**

**SWITS—solid waste information tracking system**

**SWMC—SNL Waste Management Council**

**SWMCM—shallow water mine countermeasures**

**SWMU—solid waste management unit**

**SWOE—Smart Weapons Operability Enhancement**

**SWOG—Special Weapons Overflight Guide**

**SWOP—1. Southwest Organizing Project  
2. special weapons ordnance publication**

**SWORD—Sandia wafer-level software for reliable devices**

**SWOT—strengths, weaknesses, opportunities, and threats**

**SWP—1. safe work permit 2. safe work procedure(s)**

**SWR**—standing wave ratio

**SWRD**—system for weapon rapid deployment

**SWS**—1. salt water system 2. service water system

**SW/RS**—stop work/restart

**SWSA**—solid waste storage area

**SWTP**—secretarial work training program

**SX**—space experiments

**SXR**—special exception release

**SXRP**—stellar x-ray polarimeter

**SXR**—special exception release

**SYNF**—synthetic (gaseous and liquid) fuels

**SYNROC**—synthetic rock

**SYSCON**—systems control

**SYSIN**—system input (computers)

**SYSOP**—systems operator

## **T**

**t**—1. triton (the nucleus of tritium)  
2. temperature in Celsius; sometimes written as T

**T**—tera- (a prefix indicating  $10^{12}$ )

**T**—1. tesla (magnetic flux density)  
2. temperature 3. transmission  
4. teamwork (one of the five corporate values; see I, L, Q, and R) 5. tritium (chemical symbol) 6. Trident (as in Trident II) 7. thermal 8. temporary

**Ta**—antenna noise temperature

**Ta**—tantalum (chemical symbol)

**TA**—1. transverse acoustic 2. test apparatus  
3. technical associate 4. travel authorization 5. technical area 6. test authorization

**TABM**—tactical antiballistic missile system

**TAC**—1. Tactical Air Command (The AirCombat Command has now combined the former TAC and the former SAC into one command.) 2. toxic air contaminant

**TACAMO**—take charge and move out

**TACC**—Tactical Air Control Center

**TACCAuto**—Tactical Air Command and Control (USAF automated system)

**TACFIRE**—US Army automated tactical system for artillery fire direction

**TACM**—total automatic control module

**TACOM**—Tank Automotive Command (Army)

**TACP**—Tactical Air Control Parties

**TADP**—Technology Assessment Development Plan

**TADS**—technician automated diagnostic system

**TAFIG**—Tactical Forces interoperability group

**TAFIIS**—Tactical Air Force integrated information system

**TAG**—technical assistance grant

**TAGS**—text and graphics support

**TALC**—tactical laser communications

**TALM—temperature alarm monitor**

**TALO—time after liftoff**

**TAMMBA—thermoanalyzer modulated molecular beam apparatus**

**tan—tangent**

**tanh—hyperbolic tangent**

**TAOS—technology for autonomous operational survivability**

**TAP—1. unit of impulse (1 dyne-s/cm<sup>2</sup>) 2. Training Accreditation Program (DOE) 3. technical assistance program 4. toxic air pollutant 5. tuition-assistance program**

**TAPS—1. tunnel and pipe system 2. tunnel and pipe seal**

**TARC—transportation accident resistant container**

**TATB—triaminotrinitrobenzene**

**TAWC—Tactical Air War Center**

**Tb—terbium (chemical symbol)**

**T&B—top and bottom**

**TBC—1. Testbed concentrator (related to solar) 2. To be considered 3. testbed container**

**TBD—to be determined**

**TBE—total binding energy**

**TBI—1. text-based instruction 2. through bulkhead igniter**

**Tc—technetium (chemical symbol)**

**TC—1. Thermocouple 2. test component 3. tools component 4. training and certification**

**T&C—terms and conditions**

**TCA—trichloroacetic acid**

**T&C—terms and conditions**

**TCATS—target cueing and tracking system**

**TCC—Technical Control Center**

**TCCC—Transeaver Central Control Center**

**TCD—trouble call desk**

**TCE—trichloroethylene**

**TCF—1. Technical Control Facility 2. trillion cubic feet**

**TCG—1. track control group 2. technical coordinating group 3. topical classification guide**

**TCI—technology commercialization initiative**

**TCLP—toxicity characteristic leaching procedure**

**TCMC—Technical Communications Management Council**

**TCNT—transpiration-cooled nosetip**

**TCO—technology commercialization office**

**TCPC—technical communications products group**

**TCP/IP—transmission control protocol/interest protocol**

**TCRC—Technical Classification Review Committee**

**TCREP—Technical Counters and Response Experimental Program**

**TCU—tag controller unit**

**TD**—1. theoretical density (sometimes written as Td) 2. timer driver  
3. technology development 4. time delay

**TDBI**—test during burn-in

**TDD**—target device detection

**TDDL**—time division data link

**TDF**—1. Turbulent diffusion flame  
2. Target Development Facility

**TDI**—1. target data inventory 2. time-delayed integration 3. toluene di-isocyanate

**TDLR**—training device letter requirement

**TDM**—time division multiplexing

**TDMA**—time division multiple access

**TDP**—1. targets development program  
2. technical drawing package

**TDR**—training device requirement

**TDRE**—transmit data register empty

**TDS**—1. transporter detection system  
2. tamper detection system 3. Textron Defense Systems (Wilmington, MA)  
4. test definition sub-system

**TDTC**—Test, Development, and Training Center

**TDY**—temporary duty

**Te**—tellurium (chemical symbol)

**TE**—1. transverse electric  
2. thermoelectric 3. terminal equipment

**TEARS**—tank effect augmentation by remote subsystems

**TEC**—1. total electron content 2. total estimated cost

**TECTU**—Tomahawk electrical compatibility test unit

**TEDCG**—test equipment design coordination group

**TEDE**—total effective dose equivalent

**TEF**—Test and Evaluation Facility

**TEG**—test and evaluation group

**TEL**—transporter-erector launcher

**TELER**—telecommunications requirements

**TELNET**—telecommunications network

**TEM**—1. transverse electromagnetic (wave)  
2. transmission electron microscopy

**temp**—temperature

**TEQ**—test equipment qualification

**TERA**—terminal effects research and analysis

**TERCOM**—terrain contour matching;  
sometimes written TERCONTM

**TERSE**—terminal reporting system

**TES**—1. thermal energy storage  
2. technical enforcement services

**TESS**—tactical engagement simulation system

**TESSTA**—thermal energy storage for solar thermal applications

**TEVES**—thermal enhanced (soil) vapor extraction system

**TEX**—Telex

**TFD**—tactical fusion division

**TFDD**—thermal/flash protective device

**TFE**—trifluoroethylene



**TFM—thin-film membrane**

**TFN—the proper acronym for thick (film) network is TKN**

**TFP—traffic facility practices**

**TFPD—thermal/flash protective device**

**TFS—terminal fix system**

**TFSF—thin film secure facility**

**TFT—thin-film transistor**

**TFTR—Tokamak Fusion Test Reactor (Princeton's Plasma Physics Laboratory)**

**TFW—Tactical Fighter Wing**

**TGA—thermogravimetric analysis**

**TGES—task group on electrical safety**

**TGP—two-gimbal platform**

**Th—thorium (chemical symbol)**

**TH—telemetry head**

**THB—1. test head battery 2. test head B**

**THERP—technique for human error rate prediction**

**THIS—trouble-handling information system**

**thk—thick**

**thm—therm (British unit of temperature)**

**THM—1. terminal homing munitions  
2. tri-halomethane**

**3D—three dimensional**

**THREX—threshold experiment**

**THT—transient heat transfer**

**TI—1. Texas Instruments 2. transport index**

**TIA—Telecommunications Industries Association**

**TIADS—Tonopah Integrated Air Defense System**

**TIC—Technical Information Center (Oak Ridge); TIC is now obsolete; see OSTI**

**TID—1. traveling ionospheric disturbances  
2. tamper-indicating device**

**TIDBITS—ES&H training information database**

**TIDS—technical information distribution system**

**TIE—1. technical institute equivalency (program) 2. technical information exchange**

**TIE-In—technology information environment for industry**

**TIG—tungsten inert gas**

**TIM—1. target insertion mechanism  
2. technical interchange meeting**

**TIMS—technical information monitoring system**

**TIO—technical integration office**

**TIP—1. transaction interface package  
2. Tokamak improvement program  
3. thulium isotope power**

**TIPS—total improvement process system (visitor access)**

**TIQLR—teamwork, integrity, quality, leadership, and respect**

**TIR—total indicated runout**

**TIRC**—technical information resource consultant

**TIS**—1. technical information specialist  
2. technical information service  
3. Telephone Intercept System

**TIU**—1. transducer interface unit 2. tag interface unit

**TK**—temperature Kelvin (see K)

**TkN or TKN**—thick (film) network

**TL**—transmission level

**T2L**—transistor-transistor logic; use TTL instead

**TLA**—time loss analysis

**TLAM**—Tomahawk land-attack missile

**TLAM-C**—Tomahawk land-attack missile, conventional

**TLAM-N**—Tomahawk land-attack missile, nuclear

**TLC**—total life concept (This acronym name has been discontinued at the request of AT&T.)

**TLCC**—thin line connectivity capability

**TLD**—1. thermoluminescence dosimeter  
2. threshold lung damage

**TLDE**—theater launch detection experiment

**TLE**—target-location error

**TLI**—treaty-limited item

**TLTA**—two-loop test apparatus

**TLV**—threshold limit value

**TLX**—short for TELEX

**TM**—1. tone modulation 2. transverse magnetic 3. technology manager  
4. telemetry 5. technical manual  
6. thematic mapper

**T&M**—time and material

**TMAB**—tetramethylammonium borohydride

**TMAC**—Toxic Materials Advisory Committee

**TMAP**—1. teleoperated mobile anti-armor platform 2. tactical multipurpose automated platform

**TMD**—theater missile defense

**TMDE**—test, measurement, and diagnostic equipment

**TMI**—Three-Mile Island

**TMP**—technology maturation program

**TMS**—1. The Metals Society 2. tool-made sample (QA) 3. technical marketing specialist

**TMSS**—telemanaged (or teleoperated) mobile security station (pronounced "Thomas")

**TN**—temperature (noise)

**TN**—1. thermonuclear 2. test monitor

**TNA**—thermoneutron activation

**TNAZ**—trinitroazetidine

**TNCHP**—trizacycloheptene

**TNF**—tactical nuclear forces; theater nuclear forces

**TNFC3S**—Theater Nuclear Forces Command, Control, and Communication System

**TNNW**—Treaty on Nonproliferation of Nuclear Weapons

**TNSA**—technical nuclear surety (or safety) analysis

**TNT**—trinitrotoluene (explosive)

**TO**—1. transverse optic 2. technical order (sometimes written as T.O.)

**TOA**—time of arrival

**TOC**—1. Test Operation Center  
2. Technical Operations Center 3. total organic carbon (or compound)

**TOF**—time of flight

**TOFF**—Transient Overpower Fuel-Element Failure (computers)

**TOFMS**—time of flight mass-spectrometry (or spectrometer)

**TOG**—technical oversight group

**tol**—tolerance

**TOMS**—total ozone mapping spectrometer

**TOO**—targets of opportunity

**TOP**—1. technical operating plan  
2. transient overpower (accident) 3. total obscuring power (measure of smoke screening)  
4. traffic operating procedure 5. Triple Option Plan

**TOPS**—teacher opportunities to promote science

**TOS**—1. tactical operations system  
2. transportation options study

**TOSI**—technical on-site inspection

**TOSM**—transceiver on-site multiplexer

**TOUGH**—transport of unsaturated groundwater and heat

**TOV**—teleoperated vehicle

**TOW**—time of work

**TP**—technical publication

**TPA**—1. terephthalic acid 2. tri-party agreement 3. terminal processing assembly

**TPC**—1. transaction processing center  
2. temporary procedure change

**TPD**—temperature programmed desorption

**TPICK**—Telecommunications Plan for the Improving of Communications in Korea

**TPL**—transient protection limit

**TPQ**—threshold planning quantity

**TPR**—terrain profile recorder (also known as airborne profile recorder, or APR)

**TPS**—1. thermal power system 2. tamper-protected sensors 3. transactions per second

**TPU**—text processing utility

**TPV**—thermophotovoltaic

**TPX**—1. tokamak physics experiment  
2. polymethylpentene

**TQG**—tactical quiet generator

**TQM**—total quality management

**tr**—trace

**TR**—trainer

**TRA**—1. test reactor area 2. teacher research associate

**TRAC**—transient reactor analysis code

**TRACE**—tamper-resistant authenticated camera enclosure

**TRADE**—training resources and data exchange

**TRADOC**—Training and Doctrine Command (US Army)

**TRAM**—transient multiplexer

**TRANSWRAP**—transient sodium water reaction analysis program (computers)

**TRAPP**—transient response to applied pressure pulses (computers)

**TRC**—total recordable case

**TREAT**—Transient Reactor Test Facility

**TRED**—technology for regional-based economic development

**TREE**—transient radiation effects in electronics

**TREX**—thermally reactive elastic-plastic explosive

**TRI**—1. Tech Reps, Inc. 2. toxic release inventory

**TriP**—transient ignition phenomena

**TRISP**—time-resolved infrared spectral photography

**TRITAC**—Tri-Service Joint Tactical Communications Office

**TRL**—Tritium Research Laboratory

**TRL/SRC**—Tritium Research Laboratory/Safety Review Committee

**TROKA**—Third Republic of Korea Army

**TRP**—technology reinvestment project

**TRS**—1. text recognition system  
2. telemetry receiving station

**TRSS**—tactical remote sensor system

**TRU**—1. transuranic 2. total resource utilization

**TRUEX**—transuranic extraction

**TRUPACT**—transuranic package transporter

**TRV**—tactical robotic vehicle

**TRW**—Thompson, Ramo, Wooldridge (Corporation)

**TS**—1. technical support 2. target strength  
3. top secret 4. technical specification  
5. toxic substance

**TSA**—1. technical staff associate  
2. technical safety appraisal

**TSAM**—tri-service standoff attack missile

**TSAR**—terminal special-access request

**TSC**—1. touch screen control 2. triple standard concertina 3. Technology Support Center

**TSCA**—Toxic Substances Control Act

**TSCC**—Technical Support Coordinating Committee

**TSCM**—1. technical security countermeasure  
2. temperature scram circuit monitor

**TSCO**—top secret control officer

**TSD**—1. treatment, storage, and disposal  
2. technical system design 3. technology for safe driving

**TSDF**—treatment, storage, and disposal facility

**TSE**—test support equipment

**TSER**—transportation safety evaluation report

**TSES—Transiberian Express Service**

**TSG—telephone security group**

**TSLS—trajectory stronglink switch**

**TSM—Transportation Safety Manual**

**TSN—terminal switching network**

**TSO—time-sharing option**

**TSP—1. traffic service position 2. total suspended particulates 3. transportation/storage program 4. testbed setup program**

**TSPI—time-space position information**

**TSR—1. thermostructural response 2. technical safety requirement**

**TSRS—tactical secure recode system**

**TSS—1. transportation security system 2. total suspended solid**

**TSSG—1. trajectory-sensing signal generator 2. transportation study steering group**

**TSSP—trajectory sensing signal processor**

**TSSPE—trajectory sensing signal processor enable**

**TSTS—Tomahawk system test set**

**TT—Tiger Team**

**TTA—1. tube-transformer assemblies 2. Tiger Team assessment**

**TTAP—Tiger Team Action Plan**

**TTB—1. tank testbed 2. target technology base**

**TTBT—Threshold Test Ban Treaty**

**TTC—Technology Transfer Center**

**TT&C—technology transfer and commercialization**

**TTF—thermal treatment facility**

**TTGM—Tiger Team Guidance Manual**

**TTI—technology transfer initiative**

**TTIM—TACOM thermal image model**

**TTL—transistor-to-transistor logic**

**TTLD—Teflon thermoluminescent dosimeter**

**TTM—two-tone modulation**

**TTO—total toxic organics**

**TTR—1. Tonopah Test Range 2. time to repair**

**TTS—1. time-transfer system 2. temporary threshold shift**

**TTV—test target vehicle**

**TTY—1. teletype 2. teletypewriter**

**Tu—tuballoy**

**TU-ART—twin universal asynchronous receiver/transmitter**

**TUDE—terminal user data entry**

**TUL—time until launch**

**TUQS—trajectory unique signal**

**TVA—Tennessee Valley Authority**

**TVATP—tactical vulnerability assessment training program**

**TVC—Technology Ventures Corporation**

**TVI—television interference**

**TVL—tenth value larger**

**Tw or Twad—Twaddell (a unit of specific gravity on the Twaddell scale)**

**TW—terawatt (trillion watts)**

**TWA—time-weighted average**

**TWAA—tactical warning attack assessment**

**TWCS—Tomahawk Weapon Control System**

**TWF—transuranic waste facility**

**TWNP—tape-wound nylon phenolic**

**2D—two dimensional**

**TWO-DFFT—two-dimensional fast Fourier transform (see DFFT)**

**TWP—1. transuranic waste program  
2. tactical warfare program**

**TWPG—Trident Warhead Project Group (US/UK)**

**TWS—Tomahawk Weapon System**

**TWT—1. traveling-wave tube 2. transonic wind tunnel**

**TWTSF—transuranic waste treatment and storage facility**

**TWX—teletypewriter exchange (service)**

## **U**

**u—atomic mass unit (unified)**

**mA—microamps)**

**UART—universal asynchronous receiver/transmitter**

**UAV—unmanned aerial vehicle**

**U-AVLIS—uranium-atomic vapor laser isotope separation**

**UBC—Uniform Building Code)**

**UBITRON—undulating beam interaction electron (tube)**

**UC—use control**

**U&C—usual and customary**

**UCAI—unclassified controlled access information**

**UCBT—uncollimated Compton backscattering tomography**

**UCC—use control characteristics**

**UCCATS—urban combat computer-assisted training system**

**UCC/ND—Union Carbide Corporation/Nuclear Division**

**ucg or UCG—underground coal gasification**

**UCL—upper control limit**

**UCNI—unclassified controlled nuclear information**

**UCP—1. Universal Construction Package  
2. Unified Command Plan 3. uranium calibration pit**

**UCPOG—use-control project officer's group**

**UCS—1. unclassified computer software  
2. Union of Concerned Scientists**

**UDETSS—underwater deterrent security system**

**UDL—use denial lock**

**UDT—underwater demolition team**

**UEL—upper explosive limit**

**UESC—United Energy Services Corporation**

**UF—1. Upward Feedback 2. University of Florida**

**UFAS—Uniform Federal Accessibility Standards**

**UFC—Uniform Fire Code**

**UFFCS—ultrasonics, ferroelectrics, and frequency control society**

**UFL—upper flammable limit**

**UFSAR—updated final safety analysis report**

**UG—underground**

**UGS—unattended ground sensor**

**UGSW—unattended ground sensor workstation**

**UGT—underground test**

**UGV—unmanned ground vehicle**

**UHDL—unified hardware description language (computers)**

**UHF or uhf—ultra-high frequency**

**UHI—upper-head injection**

**UHLCADS—ultra-high-level container airdrop system**

**UHV—ultra-high voltage**

**U/I—urban-industrial**

**UIC—1. user identification code  
2. underground injection control**

**UIS—user interface simulation**

**UJT—unijunction transistor**

**UK—United Kingdom**

**UKAEA—United Kingdom Atomic Energy Authority**

**UL—Underwriter’s Laboratories, Inc.**

**ULF—ultra-low frequency**

**ULSI—ultra-large-scale integrated**

**UMS—1. ultrasonic motion sensor  
2. universal maintenance standards**

**UNAAF—Unified Action Armed Forces**

**UNC—1. unified national coarse (holes)  
2. United Nuclear Corporation**

**UNCAI—unclassified noncontrolled access information**

**UNICCAP—universal cable circuit analysis program (computers)**

**UNIX—a computer operating system developed at Bell Labs**

**UNSCOM—United Nations Special Commission**

**UMT—uranium mill tailings**

**UMTCA—Uranium Mill Tailings Control Act (1978)**

**UN—unsatisfactory**

**UNO—United Nations Organization**

**UO<sub>2</sub>—uranium dioxide**

**UOP—Formerly Universal Oil Products; now a joint venture company of Union Carbide and Allied Signal**

**UOR—unusual occurrence report**

**UPC—universal PAL controller**

**UPEC—University Programs Education Committee**

**UPH—underground pumped hydro**

**UPI—1. United Press International  
2. Unidynamics/Phoenix, Inc.**

**UPS—uninterruptible power supply**

**UPT—university part-time**

**UQS—unique signal**

**UR—unsatisfactory report**

**URA—uniformly redundant array**

**URS—UHF ranging system**

**US—1. United States (often written as U.S.) 2. Ultrasonic**

**U&S—unified and specified**

**USA—1. United States Army 2. United States of America 3. United Space Alliance**

**USAAG—US Army artillery group**

**USABC—US Advanced Battery Consortium**

**USAD—US Agency for International Development**

**USADC—US Army Defense Command**

**USAF—United States Air Force**

**USAFAD—US Army Field Artillery Detachment**

**USAFE—US Air Force, Europe**

**USAKA—US Army Kwajalein Atoll**

**USAREUR—US Army, Europe**

**USART—universal synchronous/asynchronous receiver/transmitter**

**USARV—US Army in Vietnam**

**USASDC—US Army Strategic Defense Command**

**USASI—USA Standards Institute (replaces ASA)**

**USASOC—US Army Special Operations Command**

**USATHAMA—US Army Toxic and Hazardous Materials (Center)**

**USCAR—US Council for Automotive Research (research consortium formed by Ford Motor Company, Chrysler Corp., and General Motors Co.)**

**USCG—US Coast Guard**

**USCINCEUR—US Commander-in-Chief, Europe (NATO)**

**USCINCPAC—US Commander-in-Chief, Pacific Command**

**USCINCSO—US Commander-in-Chief, Southern Command (NATO)**

**USCOMDOMREP—US Commander, Dominican Republic**

**USDA—US Department of Agriculture; unique signal device assembly**

**USDOE—US Department of Energy**

**USDRE—Under Secretary of Defense for Research and Engineering**

**USDSD—ultrasonic seal data storage device**

**USDW—underground sources of drinking water**



**USECRE—US Export Council for Renewable Energy**

**USEUCOM—US European Command**

**USFK—US Forces in Korea**

**USFWS—US Fish and Wildlife Service**

**USG—1. US Government 2. unique signal generator (or generation)**

**USGCRP—US Global Change Research Program**

**USGS—US Geological Survey**

**USH—universal sleeve housing**

**USIC—US Industry Coalition**

**USJVP—Utility Scale Joint-Venture Project**

**USMB—US Metric Board**

**USMC—US Marine Corps**

**USN—US Navy**

**USNC/RM—US National Committee for Rock Mechanics**

**USOP—unique signal override plug**

**USQ—unreviewed safety question**

**USRADS—ultrasonic ranging and data system**

**USRD—ultrasonic seal reading head**

**USS—United States ship**

**USSAN—US Security Affairs NATO**

**USSIOP—US single integrated operational plan**

**USSPACE(COM/NORAD—US Space Command/North American Air Defense**

**USSR—Union of the Soviet Socialist Republics (see NIS and FSU)**

**UST—1. unique signal train  
2. underground storage tank**

**UT—ultrasonic testing**

**UTA—University of Texas at Austin**

**UTC—universal time coordinated**

**UTMC—United Technologies Microelectronics Center**

**UTRC—United Technologies Research Center**

**UU—ultimate user**

**UUT—Unit Under Test**

**UV—1. ultraviolet 2. undervoltage**

**UVASER—ultraviolet amplification by stimulated emission of radiation**

**UV-LIDAR—ultraviolet light detection and ranging**

**UV-Vis—ultraviolet visible**

**UWB—ultra-wide band**

**UXO—unexploded ordnance**

## **V**

**v—1. vibration 2. velocity**

**V—1. vanadium (chemical symbol) 2. volt**

**VA—1. Volt ampere 2. vulnerability assessment**

**vac—vacuum**

**VAC**—1. Vacuum Atmospheric Company; (Hawthorne, CA) 2. volts, alternating current (see VDC) 3. vacuum

**VACS**—voice activated control system

**VAFB**—Vandenberg Air Force Base

**VAIS**—visually artificial intelligent surveillance

**VAM**—vibration and acoustic monitoring

**VAMS**—visits and assignments management system

**VANA**—vector automatic network analysis (or analyzer)

**VAR**—volt-ampere reactive

**VAR**—1. visual-aural range 2. vacuum-arc-remelt

**VAT**—vertical access tower

**VAWT**—vertical-axis wind turbine

**VAX**—virtual address extension

**VB/TWSS**—vehicle barrier/taut-wire sensor system

**VC**—verification chamber

**VCC**—voice conferencing console

**VCE**—vinyl copolymer ethylene

**VCN**—voluntary corrective measure(s)

**VCO**—1. voltage-controlled oscillator 2. virtual cathode oscillator

**VCP**—1. volunteer contribution plan 2. verifiable control procedures 3. verifiable completion process 4. vitrified clay pipe

**VCR**—videocassette recorder

**VCSEL**—vertical-cavity, surface-emitting laser

**V&CT**—verification and control technology

**VDC**—1. volts, direct current (see VAC) 2. volts direct current

**VDFG**—variable diode function generator

**VDI**—1. video disk interactive (computers) 2. virtual device interface

**VDT**—video display terminal

**Ve**—exhaust velocity (expressed in m/s)

**VE**—visoelastic (materials)

**VEC**—variable explosive chamber

**VENUS**—computer code superseding MARS code for disassembly analysis

**vf or VF**—video frequency

**VFA**—vibration fly around

**VFO**—variable frequency oscillator

**VFP**—variance frequency processor

**VGA**—1. video graphics array 2. video graphics adapter 3. voluntary group accident (insurance)

**VH**—velocity (or validation) head

**V&H**—vulnerability and hardening

**VHAP**—volatile hazardous air pollutant

**VHDL**—VHSIC hardware description language

**VHF or vhf**—very high frequency

**Vholdup**—holdup capacitor voltage

**VHSIC—very high speed integrated circuit**

**VHT—very high temperature**

**VIA—volunteers in action**

**IEWS—virtual interactive environment  
work space**

**VIP—1. visual information projection  
2. vital issue process 3. video imaging  
projectile 4. very important person**

**VISAR—velocity interferometer system for  
any reflector**

**VISDTA—video imaging system for detection,  
tracking, and assessment**

**VISTA—very intelligent surveillance and  
target acquisition**

**VITA—volunteers in technical assistance**

**Viterbi—redundancy for error checking**

**VIU—VME I/F unit**

**viz.—videlicet; namely**

**VKA—volatile keying assembly**

**VLBI—very low baseline interferometry**

**vlf or VLF—very low frequency**

**VLF—very low flow**

**VL&H—vulnerability, lethality, and  
hardening**

**VLOS—vertical line of sight**

**VLR—very long range**

**VLS—vertical launching system**

**VLSI—very large scale integration**

**VM—1. velocity modulation 2. voltmeter**

**3. virtual machine**

**V/m—volts per meter**

**VMD—video motion detection**

**VME—versa-module, Europe**

**VMS—virtual memory system**

**VMSEL—Virtual Manufacturing and  
Synthetic Environment Laboratory (SNL)**

**VNIIA—Translation: All-Russian Scientific  
Research Institute of Automatics**

**VNIR—very near infrared**

**VNIEF—(also known as Arzamas-16)  
Translation: Russian nuclear weapons  
laboratory (can be considered a combination  
of Los Alamos National Laboratory and  
Sandia National Laboratories)**

**VNITF—Translation: Russian Federal  
Nuclear Center**

**v/o—volume/percent**

**VOC—volatile organic compounds**

**V/OD—voice/open data**

**vol—volume**

**VOM—volt-ohm milliammeter**

**VOR—VHF omni range**

**VP—1. video processor 2. vault processor 3.  
vice president 4. vapor pressure**

**Vp—pinchoff voltage**

**VPIC—Russian acronym for Soviet Military  
Industrial Commission**

**VR—virtual reality**

**VRCI—Variable Resistive Components Institute**

**VRE—vibrating reed electrometer**

**VRF—Visual Recording Facility**

**VRIS—vault remote inventory system**

**VRLA—valve regulated lead-acid (batteries)**

**VRTWG—verification research technology working group**

**vs.—versus**

**VS—very survivable**

**VSF—vestigial sideband**

**VSI—visual site inspection**

**VSIS—Vault Safety and Inventory System**

**VSM—vestigial sideband modulation**

**V-SMOW—Vienna standard mean ocean water**

**VSS—video storage system**

**VSTOL—vertical/short takeoff and landing (aircraft)**

**VSU—1. voice synthesizer unit 2. video surveillance unit**

**VSF—very shallow water**

**VSWR—voltage standing-wave ratio**

**VT—vacuum tube**

**VTE—virtual test environment**

**VTM—virtual terminal**

**VTL—voluntary term life**

**VTOL—vertical takeoff and landing**

**VTTP—Verification Test Plan and Procedures**

**VTR—1. video tape recorder 2. vault-type room**

**VTB—vertical tube storage**

**VTVM—vacuum tube voltmeter, used now only on old equipment; use EVM for electronic voltmeter**

**VTWS—vertical taut-wire sensor**

**VTZF—variable threshold zonal filter**

**vu—volume unit**

**VU—veeder unit**

**Vu-graph—informal spelling of viewgraph**

**VUA—virtual user address**

**VUV—vacuum ultraviolet**

**V&V—validation and verification**

**VVT—variable valve timing**

## **W**

**W—1. watts 2. wolfram (or tungsten) (chemical symbol) 3. warhead**

**WA—work authorization**

**WAC—1. weapons allocation committee 2. weapons advisory committee 3. weapons activity committee**

**WACC—waste acceptance criteria committee**

**WADS—weapons access delay system (formerly the igloo access delay system)**

**WAF—waste assay facility**

**WAIS—1. wide area intrusion (detection) system 2. wide area information server (OSTI) 3. wide area infrared sensor**

**WALI—workstation for the analysis of LISA images**

**WALT—warning assessment logic terminal**

**WALTS—wide-angle laser transmitter system**

**WAM—1. wide-area mine 2. warhead arming maneuver**

**WAN—wide-area network**

**WAP—weapon appraisal process**

**W-ARD—Westinghouse, Advanced Reactors Division**

**WARSS—wide area ramp surveillance system**

**WART—wave action rotary transmission**

**WATCH—wireless alarm transmission of container handling**

**WATDR—waste accumulation traveler disposal request**

**WATS—wide-area telephone service**

**Wb—weber**

**WBC—whole body counter**

**WBCN—wide-band communications network (DOE) (Transmission between Production Facilities and the Weapons Labs)**

**WBS—work breakdown structure**

**WC—waste custodian**

**WCD—weapon compatibility date**

**WCL—Waste Certification Laboratory**

**WCP—weapon control panel**

**WCS—weapon control system**

**WCSC—Workgroup Computing Service (or Support) Center**

**WCU—1. WATCH controller unit  
2. weapon control unit**

**WDCR—weapon design and cost report**

**WDD—wing data disk**

**WDEC—weapon design, engineering, and certification**

**WDI—watchdog input**

**WDL—work days lost**

**WDR—weapons development report**

**WDSR—weapon development status report**

**WDT—warning display terminal**

**w.e.—water equivalent**

**WE—1. write enable 2. Western Electric**

**WEAT—Web External Architecture Team**

**WEC—Westinghouse Electric Corporation**

**WeDID—Waste Component Recycle, Treatment, and Disposal Integrated Demonstration**

**WEF—Water Environment Federation**

**WEIL—weapon evaluation test laboratory**

**WERC—Waste-Management Education and Research Consortium**

**WERF—Waste Experimental Reduction Facility**

**WERP—Waste Examination Reduction and Packaging (Facility)**

**WES—1. warhead electrical system  
2. weapon electrical system 3. Waterways Experiment Station**

**WESF—Waste Encapsulation and Storage Facility (Hanford)**

**WESTCOM—Western Command**

**WESTLANT—Western Atlantic Command (NATO)**

**WETL—Weapon Evaluation Test Laboratory**

**WF&A—waste, fraud, and abuse**

**WFO—work for others**

**WFOTD—Work for Others Technologies Division (DOE)**

**wg—weapon grade**

**WGA—Western Governors Association**

**WGBC—waveguide beyond cutoff**

**wgs—water-gas shift**

**WGS—world geodetic system**

**WGSP—Western Gas Sands Project**

**Wh—watt hour**

**WH—warhead**

**WHC—Westinghouse Hanford Company**

**WHCA—White House Communications Agency**

**WHI—warhead installation**

**WHOI—Woods Hole Oceanographic Institution**

**WH/RV—warhead and/or reentry vehicle**

**WHS—warhead section**

**WHTU—warhead test unit**

**WIMP—weakly interacting massive particle**

**WIN—1. waste information network  
2. women's inreach network**

**WINS—well-based inertial navigation system (now banned)**

**WIPP—Waste Isolation Pilot Plant**

**WIR—weapon information report**

**WIS—WWMCCS information system**

**WITS—warhead (or weapon) integration test system**

**WITU—a weapon identification device**

**WIU—weapon interface unit**

**wk—week**

**WL—1. Wright Laboratory 2. Weapons Laboratory 3. working level**

**WL/AD—Wright Laboratories/Armament Directorate**

**WLANT—West Atlantic**

**WLM—working level month**

**WM—waste management**

**WMD—waste-management defense**

**WMIC—Waste Minimization Implementation Center**

**WMin—waste-minimization**

**WMOA—waste minimization opportunity assess-**

ment

**WMOC**—waste management operations committee

**WMRP**—waste-management and regulatory projects

**WMS**—warehouse management system

**WMT**—weapons maintenance trailer

**WN**—WNINTEL

**WNINTEL**—Warming Notice: Intelligence (Sources or Methods Involved)

**w/o**—1. weight/percent; see wt. % (preferred)  
2. without

**WO**—1. work order 2. waste operations

**WOB**—women-owned (or woman-owned) business

**WOC**—Wing Operations Center

**WORM**—write once read many

**WOTS**—work order tracking system

**WP**—1. white phosphorus (screening smoke)  
2. West Point. 3. Warsaw Pact (now obsolete)  
4. word processing (or word processor)

**WPAS**—work package authorization system (nonweapons program)

**WPC**—Women’s Program Committee

**W/PC**—work/passenger car

**WPIO**—WIPP Project Integration Office (DOE)

**wpm**—words per minute

**WPM**—work project manager

**wpn**—weapon

**WPPSL**—weapons production primary standards laboratory

**WPT**—Weapon Preload Test

**WQC**—water quality criteria

**WQCC**—Water Quality Control Commission

**wr**—wreath

**WR**—1. war reserve (stockpile of weapons)  
2. working receiver (STTF)

**WRAP**—waste receiving and processing plan

**WRD&T**—weapons research, development, and testing

**WRE**—Weapons Research Establishment (UK)

**WREAFS**—waste reduction evaluation at federal site

**WRO**—weapon retrofit order

**WROC**—waste reduction operations complex

**wrs**—weighted residual squared

**WRT**—WIPP radioactive test

**WR&TD**—weapons research and technology development (program)

**WS**—1. weapons system 2. warhead section 3. weapon storage 4. work station 5. worker safety 6. weapon science

**WS<sup>3</sup>**—This system’s formal US designation is the Weapon Storage and Security System (AN/FSQ-143-V). Within NATO, the WS<sup>3</sup> is called the Weapon Security and Survivability System.

**WSA**—weapon storage area

**WSARG**—weapon safety assessment and review group

**WSC**—weapons security container

**WSE**—worksite evaluation

**WSESRB**—Weapon System Explosives Safety Review Board

**WSET**—weapon systems evaluation test

**WSI**—Wackenhut Services, Inc. (DOE contractor)

**WSLI**—weapon surety link interface

**WSMC**—Western Space and Missile Center

**WSMR**—White Sands Missile Range

**WSNSO**—weather service nuclear support office

**W/sr**—watt per steradian

**WSRA**—Wild and Scenic Rivers Act (1968)

**WSRS**—Westinghouse Savannah River Site

**WSRSG**—weapon system review study group

**WSS**—1. weighted sum of squares 2. wide sense stationary

**WSSB**—weapon system safety branch

**WST**—work study trainee

**W/st**—watt per steradian

**WSV**—weapons storage vault

**wt**—weight

**WT**—1. water tight 2. weapons testing

**wt%**—weight percent

**WTDC**—waste tank diverter cell

**WTE**—warhead test environment

**WTO**—Warsaw Treaty Organization

**WTS**—Washington tactical switch

**WTTV**—WSMC transponder test van

**WTVD**—Russian acronym for Western Theater of Military Operations

**WW**—world war; initial-cap words when used with a number as World War II (WWII)

**WWC**—wire-wound calorimeter

**WWMCCS**—World-Wide Military Command and Control System

**WWVCS**—World-Wide Voice Conferencing System

**WWW**—world-wide web (hyper-text based multimedia environment)

**WYSIWYG**—what you see is what you get

## **X**

**X**—reactance

**XCHEM**—explosive chemical

**XDT**—delayed detonation (sometimes called sympathetic detonation)

**XGDS**—exempt from general declassification schedule

**XISPS**—x-ray image scan processing system

**X-MIBA**—external microbeam analysis

**X-MP**—x-multiplexer-processor



**XNS—Xerox network system**

**XPS—x-ray photoelectron spectroscopy**

**XRD—1. x-ray detector; 2. x-ray diode**

**XRL—x-ray laser**

**XTL—crystal**

**XTM-LF—x-ray tomographic microscope load frame**

**xu—x-unit (the siegbahn, a unit of length)**

**XUV—extreme ultraviolet**

## **Y**

**Y—yttrium (chemical symbol)**

**Y-12—Oak Ridge Y-12 Plant**

**YAG—yttrium aluminum garnet (laser)**

**Yb—ytterbium (chemical symbol)**

**yd—yard**

**YIG—Yttrium Iron Garnet (laser)**

**YMP—Yucca Mountain Project**

**YOT—youth opportunity trainee**

**yr—year**

**YTD—year to date**

**Y-Term—Yale terminal emulator**

## **Z**

**Z—atomic number**

**ZB—Zodiac Beauchamp**

**ZEG—zero energy growth**

**ZES—zero energy state**

**Zn—zinc sulfide (chemical element)**

**ZnS—zinc sulfide**

**ZOC—zone operations control**

**ZPPR—zero power plutonium reactor**